

15W Single Output Switching Power Supply



GS-15...

Feature

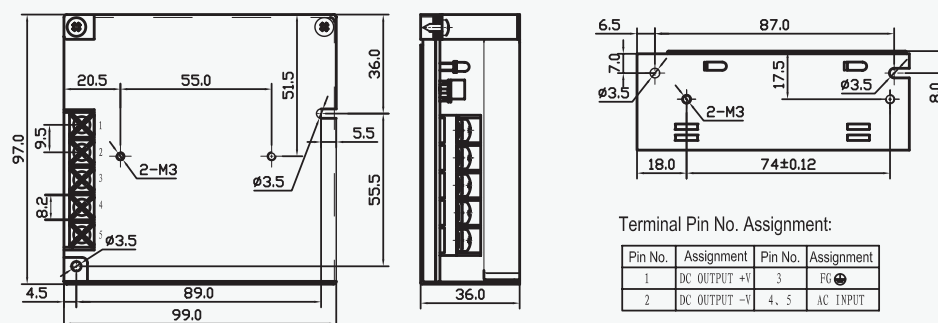
- High efficiency, high reliability, lost cost
- AC input range selected by switch
- 100% full load burn-in test
- Protections: Short circuit / Over load
- Cooling by free air convection
- Fixed switching frequency at 37KHz
- 1 year warranty
- Dimensions: 99*97*36mm(L*W*H)

Notes:

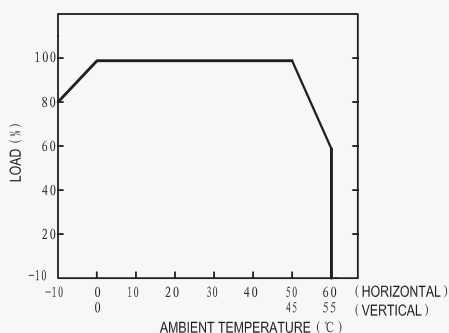
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1µf & 47µf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS-15-5	GS-15-12	GS-15-24
Output	DC Voltage	5V	12V	24V
	Voltage Tolerance	±2%	±1%	±1%
	Rated Current	3A	1.3A	0.7A
	Current Range	0-3A	0-1.3A	0-0.7A
	Rated Power	15W	15.6W	16.8W
	Ripple & Noise	50 mVp-p	50 mVp-p	100 mVp-p
	DC Voltage adi. Range	-5%,+10%	±10%	±10%
	Setup,Rise,Hold Time	200ms,100ms,30ms at full load		
Input	Voltage Range	85-132 VAC / 170-264 VAC 47-63 Hz; selected by switch 240-370VDC		
	AC Current	0.5 A/115 V 0.25A/ 230 V		
	Efficiency	65%	68%	72%
	Inrush Current	Cold start 15A/115VAC 30A/230VAC		
	Leakage Current	<0.5 mA/240VAC		
Protection	Over Load	110%-160%		
		Protection type: Fold back current limiting, recovers automatically after fault condition is removed		
Environment	Working Temp., Humidity	-10 C~+60 C; 20%~90 %RH		
	Storage Temp., Humidity	-20 C~+85 C; 10%~95 %RH		
	Vibration	10~500Hz, 2G 10min./1cycl, period for 60 min, each along X, Y, Z, axes		
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC		
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG :100M /500VDC		
Standards	Safety Standard	Design refer to UL1012		
	EMC Standard	Design refer to FCC Part 15J Conduction Class B		
Others	Weight	0.31Kg		
	Packing	45pcs/15Kg/0.9CUFT		

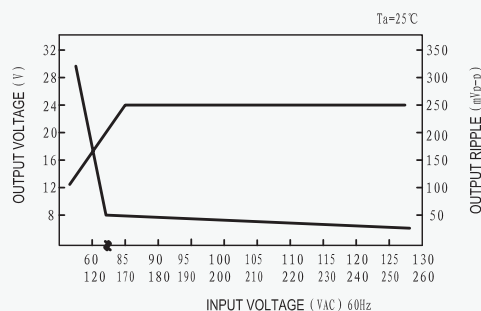
Outline and dimension



Derating Curve



Static Characteristics(A)



25W Single Output Switching Power Supply



GS-25...

Feature

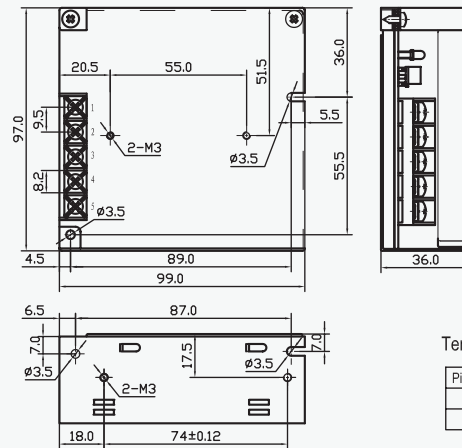
- High efficiency, high reliability
- Universal AC input / Full range
- 100% full load burn-in test
- Protection:
Short circuit / Over load / Over voltage
- Fixed switching frequency at 37 KHz
- Cooling by free air convection
- 2 years warranty
- Dimensions: 99*97*36mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GS-25-5	GS-25-12	GS-25-15	GS-25-24
Output	DC Voltage	5V	12V	15V	24V
	Voltage Tolerance	±2%	±1%	±1%	±1%
	Rated Current	5A	2.1A	1.7A	1.1A
	Current Range	0-5A	0-2.1A	0-1.7A	0-1.1A
	Rated Power	25W	25.2W	25.5W	26.4W
	Ripple & Noise	50mVp-p	100mVp-p	100 mVp-p	100mVp-p
	DC Voltage adi.Range	-5%, +10%	±10%	±10%	±10%
Input	Setup,Rise,Hold Time	800ms,50ms,10ms/115VAC 300ms,50ms,80ms/230VAC at full load			
	Voltage Range	85~264 VAC 47~63 Hz, 120~370VDC			
	AC Current	0.6 A/115 V0.35A/ 230 V			
	Efficiency	72%/115VAC	76%/115VAC	77%/115VAC	80%/115VAC
	Inrush Current	Cold start 15A/115V 30A/230V			
Protection	Leakage Current	<0.75 mA/240VAC			
	Over Load	110%~160% Protection type: Fold back current limiting, recovers automatically after fault condition is removed			
	Over Voltage	115%~135% Protection type: hiccup mode, recovers automatically after fault condition is removed			
Environment	Working Temp., Humidity	-10°C~+60°C; 20%~90 %RH			
	Storage Temp., Humidity	-20°C~+85°C; 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, X, Y, Z each along axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVACO/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M /500VDC			
Standards	Safety Standard	Design refer to UL1012, TUVEN60950			
	EMC Standard	Design refer to EN55022, EN61000-3-2, -3, EN61000-4-2,3,4,5, ENV50204, EN55024			
Others	Weight	0.39Kg			
	Packing	45pcs/18Kg/0.86CUFT			

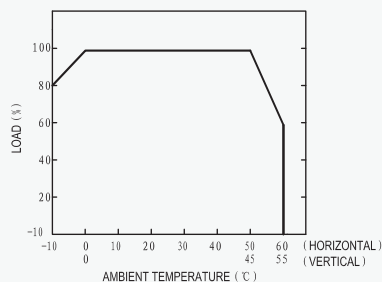
Outline and dimension



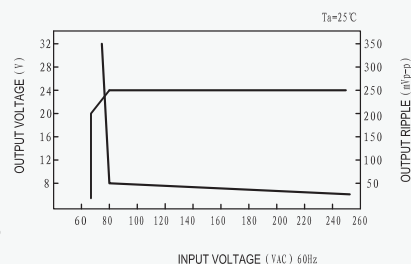
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	DC OUTPUT -V	3	FG
2	DC OUTPUT +V	4, 5	AC INPUT

Derating Curve



Static Characteristics(24V)



35W Single Output Switching Power Supply



GS-35...

Feature

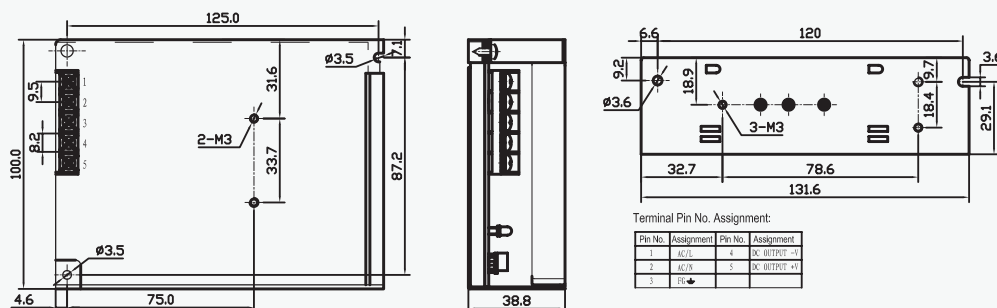
- High efficiency, high reliability, lost cost
- AC input range selected by switch
- Protections: Short circuit / Over load
- LED indicator for power on
- Fixed switching frequency at 37KHz
- Cooling by free air convection
- 1 year warranty
- Dimensions: 129*98*38mm (L*W*H)

Notes:

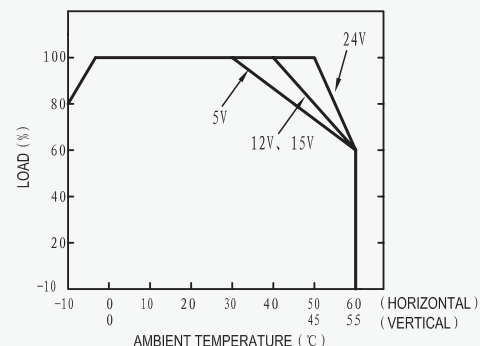
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS-35-5	GS-35-9	GS-35-12	GS-35-15	GS-35-24
Output	DC Voltage	5V	9V	12V	15V	24V
	Voltage Tolerance	±2%	±1%	±1%	±1%	±1%
	Rated Current	7A	3.6A	3A	2.4A	1.5A
	Current Range	0-7A	0-3.6A	0-3A	0-2.4A	0-1.5A
	Rated Power	35W	32.4W	36W	36W	36W
	Ripple & Noise	75 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p
	DC Voltage adi. Range	-5%,+10%	±10%	±10%	±10%	±10%
	Setup,Rise,Hold Time	200ms,100ms,30ms at full load				
Input	Voltage Range	85-132 VAC/170-264VAC selected by switch, 240-370VDC; 47-63 Hz				
	AC Current	0.8 A/115 V 0.45A/ 230 V				
	Efficiency	70%	72%	76%	78%	78%
	Inrush Current	Cold start 18A/115V 36A/230V				
	Leakage Current	< 2mA/240VAC				
Protection	Over Load	110%~160%				
		Protection type: Fold back current limiting, recovers automatically after fault condition is removed				
Environment	Working Temp., Humidity	-10°C~+60°C; 20%~90 %RH				
	Storage Temp., Humidity	-20°C~+85°C; 10%~95 %RH				
	Vibration	10~500Hz, 2G 10min./1cycl, period for 60 min,each along X,Y, Z, axes				
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC				
Standards	Safety Standard	Design refer to UL1012				
	EMC Standard	Design refer to FCC Part 15 J Conduction Class B				
Others	Weight	0.41Kg				
	Packing	45pcs/18.5Kg/1.22CUFT				

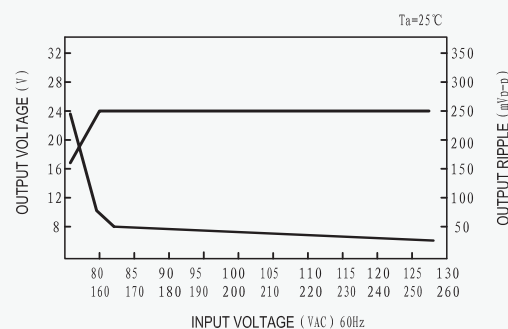
Outline and dimension



Derating Curve



Static Characteristics(24V)



40W Single Output
Switching Power Supply



GS-40...

Feature

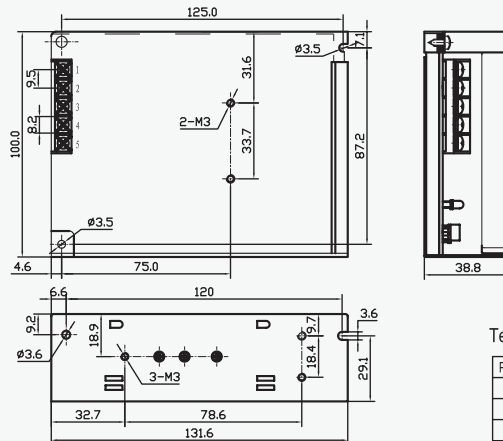
- High efficiency, high reliability
- Universal AC input / Full range
- 100% full load burn-in test
- Protection:
 - Short circuit / Over load
- Fixed switching frequency at 36 KHz
- Cooling by free air convection
- 2 years warranty
- Dimensions: 129*98*38mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GS-40-5	GS-40-12	GS-40-15	GS-40-24
Output	DC Voltage	5V	12V	15V	24V
	Voltage Tolerance	±2%	±1%	±1%	±1%
	Rated Current	8A	3.5A	2.8A	1.8A
	Current Range	0-8A	0-3.5A	0-2.8A	0-1.8A
	Rated Power	40W	42W	42W	43W
	Ripple & Noise	75mVp-p	100mVp-p	100 mVp-p	100mVp-p
	DC Voltage adi. Range	-5%, +10%	±10%	±10%	±10%
	Setup,Rise,Hold Time	800ms,50ms,15ms/115VAC300ms,50ms, 60ms/230VAC at full load			
Input	Voltage Range	85-264 VAC 47-63 Hz, 120-370VDC			
	AC Current	1.2A/115V 0.6A/ 230 V			
	Efficiency	72%/115VAC	76%/115VAC	76%/115VAC	78%/115VAC
	Inrush Current	Cold start 30A/115VAC 60A/230VAC			
	Leakage Current	<1 mA/240VAC			
Protection	Over Load	110%~160%			
		Protection type: Fold back current limiting, auto-recovery			
	Over Voltage	115%~135%			
		Protection type: hiccup mode, auto-recovery			
Environment	Working Temp., Humidity	-10°C~+60°C; 20%~90 %RH			
	Storage Temp., Humidity	-20°C~+85°C; 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC			
Standards	Safety Standard	Design refer to UL1012, UL1950, TUVEN60950			
	EMC Standard	Design refer to EN55022, EN61000-3-2,-3 EN61000-4-2, 3, 4, 5, ENV50204, EN55024			
Others	Weight	0.44Kg			
	Packing	45pcs/18Kg/1.22CUFT			

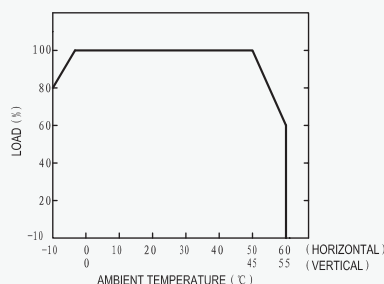
Outline and dimension



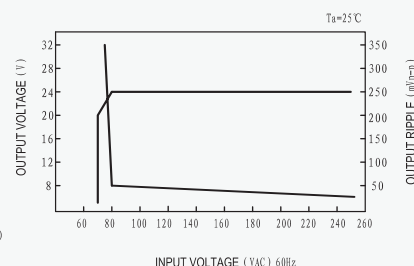
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	PG →		

Derating Curve



Static Characteristics(24V)



45W Single Output Switching Power Supply



GS-45...

Feature

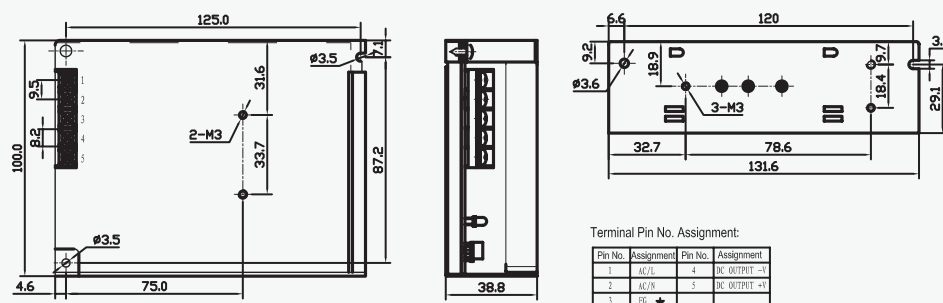
- High efficiency, high reliability, lost cost
- AC input range selected by switch
- 100% full load burn-in test
- Protections: Short circuit / Over load
- Cooling by free air convection
- LED indicator for power on
- 1 year warranty
- Dimensions: 129*98*38mm (L*W*H)

Notes:

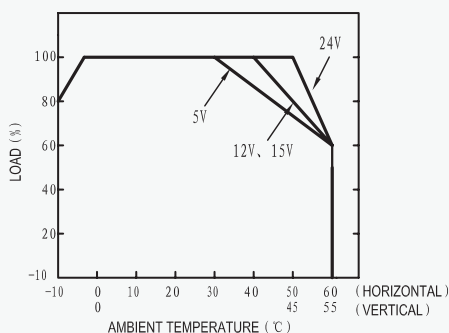
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS-45-5	GS-45-12	GS-45-15	GS-45-24
Output	DC Voltage	5V	12V	15V	24V
	Voltage Tolerance	±2%	±1%	±1%	±1%
	Rated Current	8A	3.7A	3A	1.9A
	Current Range	0-8A	0-3.7A	0-3A	0-1.9A
	Rated Power	40W	44.4W	45W	45.6W
	Ripple & Noise	90mVp-p	100 mVp-p	100 mVp-p	100 mVp-p
	DC Voltage adi. Range	±10%	±10%	±10%	±10%
Input	Setup, Rise, Hold Time	200ms, 100ms, 30ms at full load			
	Voltage Range	85~132VAC/170~264VAC; 47~63Hz; selected by switch 40~370VDC			
	AC Current	1A/ 115VAC 0.5A/230VAC			
	Efficiency	70%	76%	78%	78%
	Inrush Current	Cold start 18A/115V 36A/230V			
Protection	Leakage Current	<2mA/240VAC			
	Over Load	110%~160% Protection type: Fold back current limiting, recovers automatically after fault condition is removed.			
Environment	Working Temp., Humidity	10°C~+60°C; 20%~90 %RH			
	Storage Temp., Humidity	-20°C~+85°C; 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC			
Standards	Safety Standard	Design refer to UL1012,			
	EMC Standard	Design refer to FCC Part15J Conduction Class B			
Others	Weight	0.4Kg			
	Packing	30pcs/13.4Kg/0.86CUFT			

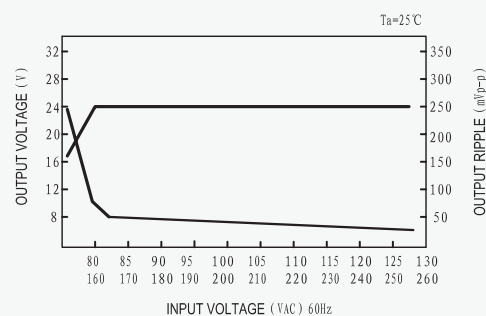
Outline and dimension



Derating Curve



Static Characteristics(24V)



50W Single Output
Switching Power Supply



GS-50...

Feature

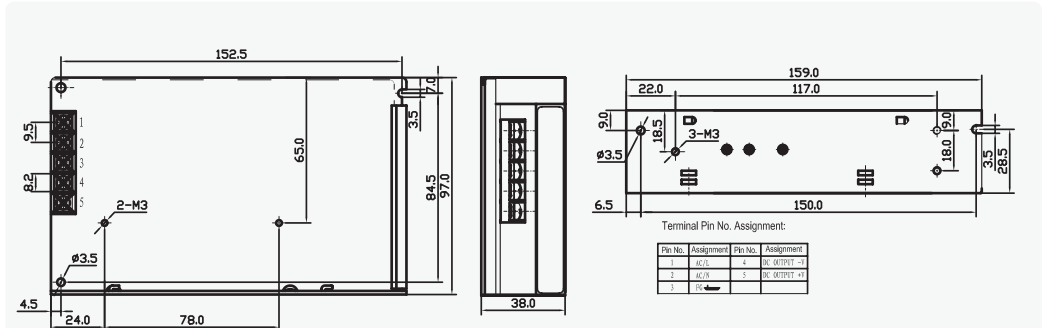
- High efficiency, high reliability, lost cost
- AC input range selected by switch
- Fixed switching frequency at 27KHz
- Protections: Short circuit / Over load
- Cooling by free air convection
- LED indicator for power on
- 1 year warranty
- Dimensions: 159*97*38mm(L*W*H)

Notes:

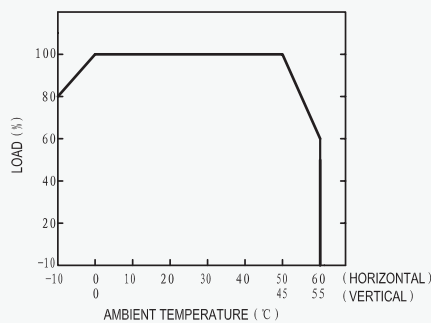
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS-50-5	GS-50-12	GS-50-15	GS-50-24	GS-50-48
Output	DC Voltage	5V	12V	15V	24V	48V
	Voltage Tolerance	±2%	±1%	±1%	±1%	±1%
	Rated Current	10A	4.2A	3.4A	2.1A	1A
	Current Range	0-10A	0-4.2A	0-3.4A	0-2.1A	0-1A
	Rated Power	50W	50.4W	51W	50.4W	48W
	Ripple & Noise	75mVp-p	100 mVp-p	100 mVp-p	100 mVp-p	100 mVp-p
	DC Voltage adi. Range	-5%, +10%	±10%	±10%	±10%	±10%
	Setup, Rise, Hold Time	200ms, 100ms, 20ms at full load				
Input	Voltage Range	85-132 VAC/170-264VAC 47-63 Hz; selected by switch 240~370VDC				
	AC Current	1.3A/115 V 0.65A/ 230 V				
	Efficiency	71%	78%	78%	82%	84%
	Inrush Current	Cold start 18A/115V 36A/230V				
	Leakage Current	<1 mA/240VAC				
Protection	Over Load	110%~160%				
		Protection type: Fold back current limiting, recovers automatically after fault condition is removed				
Environment	Working Temp., Humidity	-10°C~+60°C; 20%~90 %RH				
	Storage Temp., Humidity	-20°C~+85°C; 10%~95 %RH				
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes				
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC				
Standards	Safety Standard	Design refer to UL1012				
	EMC Standard	Design refer to FCC Part15 J Conduction Class B				
Others	Weight	0.51Kg				
	Packing	24pcs/13.1Kg/0.7CUFT				

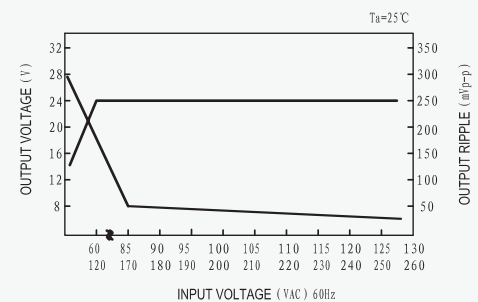
Outline and dimension



Derating Curve



Static Characteristics(24V)



60W Single Output Switching Power Supply



GS-60...

Feature

- High efficiency, high reliability
- Universal AC input / Full range
- 100% full load burn-in test
- Protection:
Short circuit / Over load/ Over voltage
- Fixed switching frequency at 50 KHz
- Cooling by free air convection
- 2 years warranty
- Dimensions: 159*97*38mm(L*W*H)

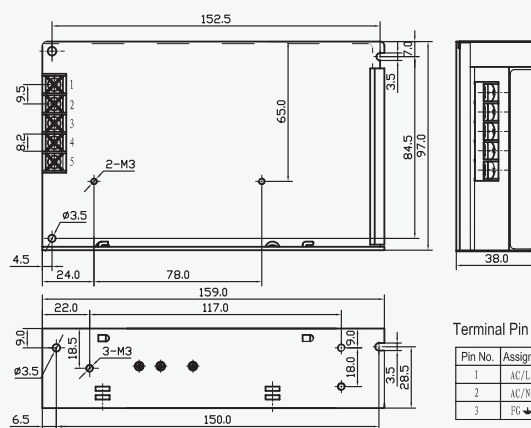
Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load

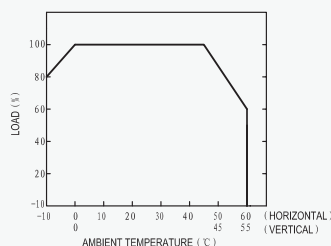
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GS-60-5	GS-60-12	GS-60-15	GS-60-24	GS-60-48
Output	DC Voltage	5V	12V	15V	24V	48V
	Voltage Tolerance	±2%	±1%	±1%	±1%	±1%
	Rated Current	12A	5A	4A	2.5A	1.3A
	Current Range	0-12A	0-5A	0-4A	0-2.5A	0-1.3A
	Rated Power	60W	60W	60W	60W	62W
	Ripple & Noise	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p
	DC Voltage adi. Range	-5%,+10%	±10%	±10%	±10%	±10%
	Setup,Rise,Hold Time	800ms,50ms,10ms/115VAC 300ms,50ms,80ms/230VAC				
Input	Voltage Range	85-264 VAC 47-63 Hz, 120-370VDC				
	AC Current	2A/115 V 1A/ 230 V				
	Efficiency	73%/	76%	77%	78%	79%
	Inrush Current	Cold start 30A/115VAC 60A/230VAC				
	Leakage Current	<3.5 mA/240VAC				
Protection	Over Load	135%~165% Protection type: Fold back current limiting, recovers automatically after fault condition is removed.				
	Over Voltage	115%~35% , Protection type: hiccup mode, recovers automatically after fault condition is removed.				
Environment	Working Temp., Humidity	-10°C~+60°C; 20%~90 %RH				
	Storage Temp., Humidity	-20°C~+85°C; 10%~95 %RH				
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each long X, Y, Z, axes				
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M /500VDC				
Standards	Safety Standard	Design refer to UL1012, UL1950, TUV EN60950				
	EMC Standard	Design refer to EN55022, EN61000-3-2, -3, EN61000-4-2, 3, 4, 5, 6, 8, 11. EN50204, EN55024				
Others	Weight	0.51Kg				
	Packing	30pcs/16Kg/0.86CUFT				

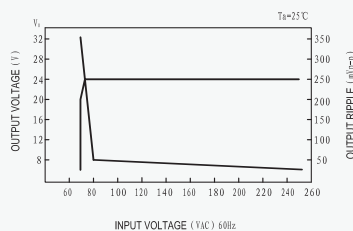
Outline and dimension



Derating Curve



Static Characteristics(24V)



70W Single Output Switching Power Supply



GS-70...

Feature

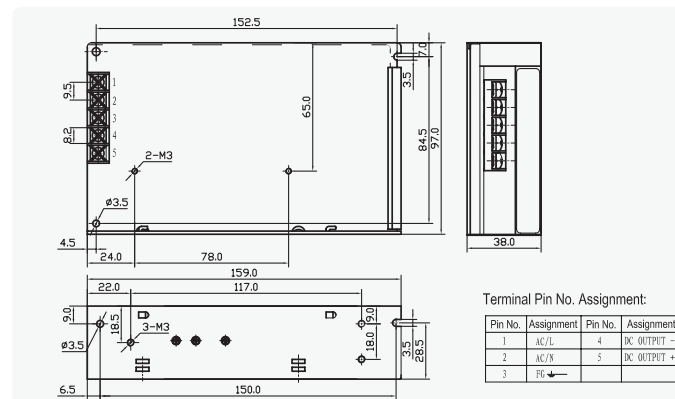
- High efficiency, high reliability
- AC input range selected by switch
- 100% full load burn-in test
- Protection:
 - Short circuit / Over load/ Over voltage
- Fixed switching frequency at 50 KHz
- Cooling by free air convection
- 2 years warranty
- Dimensions: 159*97*38mm(L*W*H)

Notes:

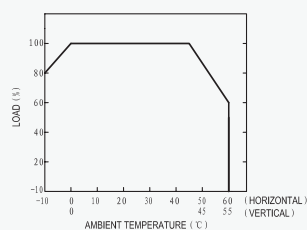
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GS-70-12	GS-70-15	GS-70-24	GS-70-48
Output	DC Voltage	12V	15V	24V	48V
	Voltage Tolerance	±1%	±1%	±1%	±1%
	Rated Current	6A	4.8A	3A	1.5A
	Current Range	0-6A	0-4.8A	0-3A	0-1.5A
	Rated Power	72W	72W	72W	72W
	Ripple & Noise	120mVp-p	150mVp-p	150mVp-p	200mVp-p
	DC Voltage adi. Range	+10%	±10%	±10%	±10%
	Setup,Rise,Hold Time	800ms, 50ms,10ms/115VAC300ms,50ms, 80ms/230VAC at full load			
Input	Voltage Range	85-264 VAC47-63 Hz, 120-370VDC			
	AC Current	2A/115V 1A/ 230 V			
	Efficiency	76%/	77%	79%	80%
	Inrush Current	Cold start 30A/115VAC 60A/230VAC			
	Leakage Current	<3.5 mA/240VAC			
Protection	Over Load	135%~165%			
		Protection type: Fold back current limiting, recovers automatically after fault condition is removed			
	Over Voltage	115%~135%			
		Protection type: hiccup mode, recovers automatically after fault condition is removed.			
Environment	Working Temp., Humidity	-10°C~+60°C; 20%~90 %RH			
	Storage Temp., Humidity	-20°C~+85°C; 10%~95 %RH			
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M /500VDC			
Standards	Safety Standard	Design refer to UL1012, UL1950, TUV EN60950			
	EMC Standard	Design refer to EN55022, EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024			
Others	Weight	0.51Kg			
	Packing	30pcs/16Kg / 0.86CUFT			

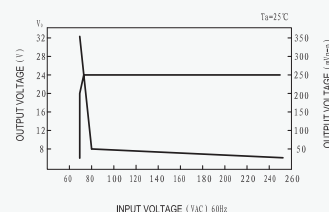
Outline and dimension



Derating Curve



Static Characteristics(24V)



100W Single Output Switching Power Supply



GS-100...

Feature

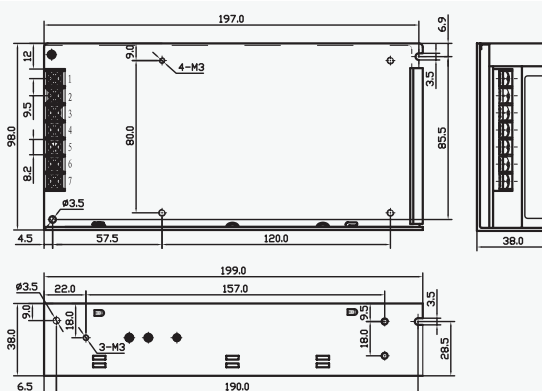
- High efficiency, high reliability, lost cost
- AC input range selected by switch
- Fixed switching frequency at 25KHz
- Protections: Short circuit / Over load
- Cooling by free air convection
- 100% full load burn-in test
- 1 year warranty
- Dimensions: 199*98*38mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS-100-3	GS-100-5	GS-100-7.5	GS-100-12	GS-100-15	GS-100-18	GS-100-24	GS-100-27	GS-
Output	DC Voltage	33V	5V	7.5V	12V	15V	18V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	20A	20A	13.6A	8.5A	6.7A	5.6A	4.5A	3.7	2A
	Current Range	0-20A	0-20A	0-13.6A	0-8.5A	0-6.7A	0-5.6A	0-4.5A	0-3.7A	0-2A
	Rated Power	6W	100W	102W	102W	100.5W	100.8W	108W	99.9W	96W
	Ripple & Noise	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
	DC Voltage adi. Range	-5%+10%	-5%+10%	±10%	±10%	±10%	±10%	±10%	-4%±18%	±10%
	Setup,Rise,Hold Time	200ms,80ms,20ms at full load								
Input	Voltage Range	85~132 VAC/180~264VAC 47~63 Hz; selected by switch 255~370VDC								
	AC Current	2.4A/115 V 1.2A/ 230 V								
	Efficiency	70%	78%	80%	81%	81%	82%	84%	84%	84%
	Inrush Current	Cold start 30A/115V 60A/230V								
	Leakage Current	1 mA/240VAC								
Protection	Over Load	135%~165% Protection type: Shut down o/p voltage, recovers automatically after fault condition is removed.								
Environment	Working Temp& Humidity	-10°C~+60°C; 20%~90 %RH								
	Storage Temp & Humidity	-20°C~+85°C; 10%~95 %RH								
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100M /500VDC								
Standards	Safety Standard	Design refer to UL1012								
	EMC Standard	Design refer to FCC Part 15 J Conduction Class B								
Others	Weight	0.62Kg								
	Packing	30pcs/18Kg/1.22CUFT								

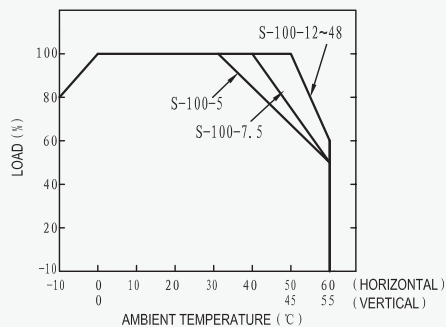
Outline and dimension



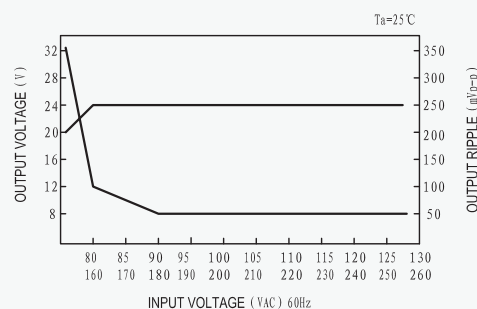
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4, 5	DC OUTPUT -V
2	AC/N	6, 7	DC OUTPUT +V
3	FG		

Derating Curve



Static Characteristics(24V)



100W Single Output Switching Power Supply



GS-100F...

Feature

- High efficiency, high reliability
- AC input range selected by switch
- 100% full load burn-in test
- Protection:
 - Short circuit / Over load/ Over voltage
- Fixed switching frequency at 83 KHz
- Cooling by free air convection
- 2 years warranty
- Dimensions: 199*98*38mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

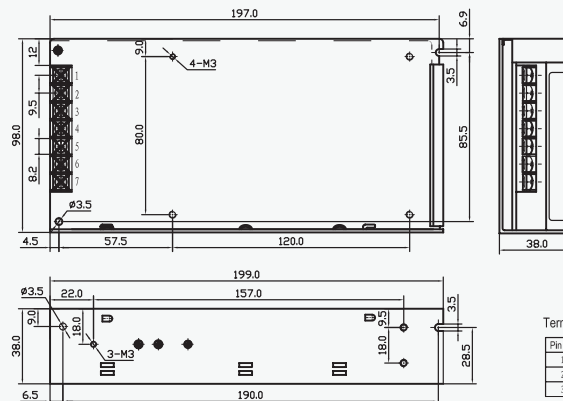
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

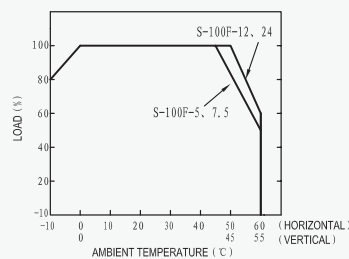
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GS-100F-5	GS-100F-7.5	GS-100F-12	GS-100F-15	GS-100F-24	GS-100F-27	GS-100F-48
Output	DC Voltage	5V	7.5V	12V	15V	24V	27V	48V
	Voltage Tolerance	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	20A	13.5A	8.5A	6.7A	4.5A	3.5A	2.2A
	Current Range	0-20A	0-13.5A	0-8.5A	0-6.7A	0-4.5A	0-3.5A	0-2.2A
	Rated Power	100W	101W	102W	100.5W	108W	94.5W	105.6W
	Ripple & Noise	120mVp-p	125mVp-p	125mVp-p	125mVp-p	150mVp-p	150mVp-p	150mVp-p
	DC Voltage adi. Range	+10%	±10%	±10%	±10%	±10%	±10%	±10%
	Setup,Rise,Hold Time	1s,30ms,15ms at full load						
Input	Voltage Range	88~132 VAC/176~264VAC 47~63 Hz, selected by switch 248~370VDC						
	AC Current	3.15A/115 V 1.5A/ 230 V						
	Efficiency	76%	78%	80%	81%	83%	83%	84%
	Inrush Current	Cold start 30A/115V 60A/230V						
	Leakage Current	<1 mA/240VAC						
Protection	Over Load	135%~165%						
		Protection type: Shut down o/p voltage, recovers automatically after fault condition is removed						
	Over Voltage	115%~135%						
Protection type: hiccup mode, recovers automatically after fault condition is removed.								
Environment	Working Temp., Humidity	-10°C~+60°C; 20%~90 %RH						
	Storage Temp., Humidity	-20°C~+85°C; 10%~95 %RH						
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60 min, each along X, Y, Z axes						
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC						
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M /500VDC						
Standards	Safety Standard	Design refer to UL1012TUV EN60950						
	EMC Standard	Design refer to EN55022, EN61000-3-2,-3; EN61000-4-2,3,4,5,6,8,11. ENV50204, EN55024						
Others	Weight	0.65Kg						
	Packing	30pcs/18Kg/1.22CUFT						

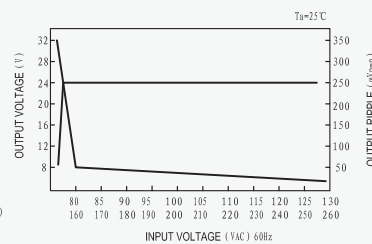
Outline and dimension



Derating Curve



Static Characteristics(24V)



100W Single Output Switching Power Supply



GS-100B...

Feature

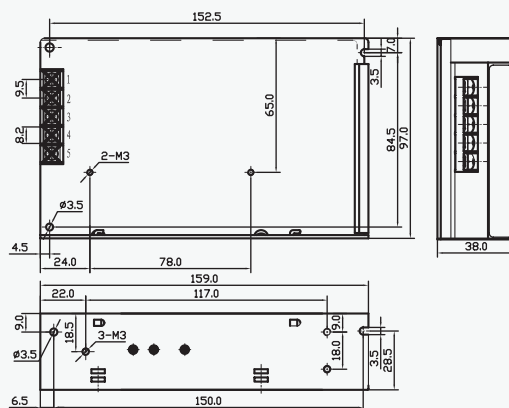
- High efficiency, high reliability, lost cost
- AC input range selected by switch
- Fixed switching frequency at 100KHz
- Protections: Short circuit / Over load
- Cooling by free air convection
- 100% full load burn-in test
- 1 year warranty
- Dimensions: 159*97*38mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS-100B-5	GS-100B-7.5	GS-100B-12	GS-100B-15	GS-100B-24	GS-100B-48
Output	DC Voltage	5V	7.5V	12V	15V	24V	48V
	Voltage Tolerance	±1.5%	±1.5%	±1%	±1%	±1%	±1%
	Rated Current	15A	11A	8.3A	6.6A	4.2A	2.1A
	Current Range	0-15A	0-11A	0-8.3A	0-6.6A	0-4.2A	0-2.1A
	Rated Power	75W	82.5W	99.6W	99W	100.8W	100.8W
	Ripple & Noise	80mVp-p	120 mVp-p	120 mVp-p	150 mVp-p	150 mVp-p	150 mVp-p
	DC Voltage adi. Range	+10%	±10%	±10%	±10%	±10%	±10%
	Setup,Rise,Hold Time	300ms,150ms,20ms					
Input	Voltage Range	90~135VAC/180-264VAC 47-63Hz					
	AC Current	1.9A/115VAC 1A/230V AC					
	Efficiency	78%	80%	81%	82%	84%	84%
	Inrush Current	Cold start 150A/230V					
	Leakage Current	<1 mA/240VAC					
Protection	Over Load	115%~150%					
		Protection type: Fold back current limiting, recovers automatically after fault condition is removed					
Environment	Working Temp., Humidity	-10°C~+60°C; 20%~90 %RH					
	Storage Temp., Humidity	-20°C~+85°C; 10%~95 %RH					
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes					
Safety	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC					
Standards	Safety Standard	Design refer to UL1012 EN60950					
	EMC Standard	Design refer to EN55022, IEC801-2,3,4 EN61000, EN555-2					
Others	Weight	0.51Kg					
	Packing	30pcs/16.1Kg/0.86CUFT					

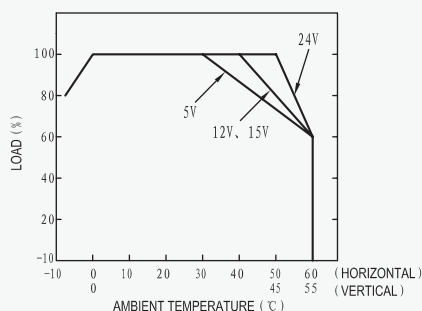
Outline and dimension



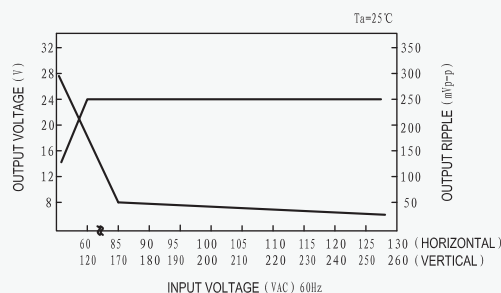
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	5	DC OUTPUT +V
3	FG		

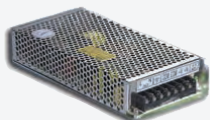
Derating Curve



Static Characteristics(24V)



145W Single Output Switching Power Supply



GS-145...

Feature

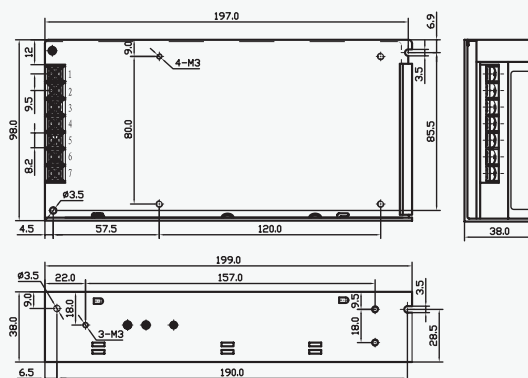
- High efficiency, high reliability, lost cost
- AC input range selected by switch
- Fixed switching frequency at 25KHz
- Protections: Short circuit / Over load
- Cooling by free air convection
- 100% full load burn-in test
- 1 year warranty
- Dimensions: 199*98*38mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS-145-5	GS-145-7.5	GS-145-12	GS-145-15	GS-145-24
Output	DC Voltage	5V	7.5V	12V	15V	24V
	Voltage Tolerance	±2%	±1%	±1%	±1%	±1%
	Rated Current	25A	18A	12A	9.6A	6A
	Current Range	0-25A	0-18A	0-12A	0-9.6A	0-6A
	Rated Power	125W	135W	144W	144W	144W
	Ripple & Noise	100mVp-p	120 mVp-p	120 mVp-p	120 mVp-p	150 mVp-p
	DC Voltage adi. Range	+10%	-20%+10%	-12%±10%	-12%±10%	-12%±16%
	Setup,Rise,Hold Time	100ms,50ms,20ms at full load				
Input	Voltage Range	88-132 VAC/176-264VAC 47-63 Hz				
	AC Current	3.2A/115 V 1.6A/ 230 V				
	Efficiency	78%	80.5%	80.5%	81%	83.5%
	Inrush Current	Cold start 35A/230V				
	Leakage Current	3.5mA/240VAC				
Protection	Over Load	135%~165%				
		Protection type: Shut down o/p voltage, re-power on to recover				
	Over Voltage	115%~135%				
Protection type: Shut down o/p voltage, re-power on to recover						
Environment	Working Temp & Humidity	-10°C~-+60°C; 20%~90 %RH				
	Storage Temp & Humidity	-20°C ~+85°C; 10%~95 %RH				
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes				
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100M /500VDC				
Standards	Safety Standard	Design refer to UL1012				
	EMC Standard	Design refer to EN55022,IEC801-2,3,4				
Others	Weight	0.71Kg				
	Packing	30pcs/22.5Kg/1.22CUFT				

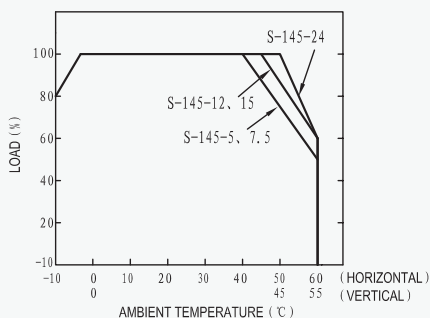
Outline and dimension



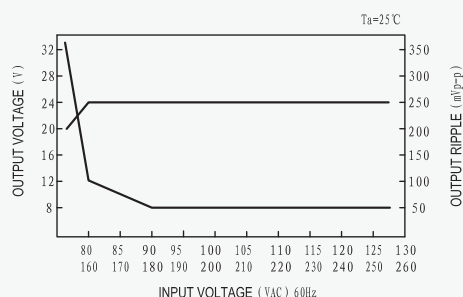
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4, 5	DC OUTPUT -V
2	AC/N	6, 7	DC OUTPUT +V
3	FG		

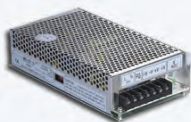
Derating Curve



Static Characteristics(24V)



150W Single Output Switching Power Supply



GS-150...

Feature

- High efficiency, high reliability
- AC input range selected by switch
- 100% full load burn-in test
- Protection:
 - Short circuit / Over load/ Over voltage
- Fixed switching frequency at 25 KHz
- Cooling by free air convection
- 2 years warranty
- Dimensions: 199*110*50mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

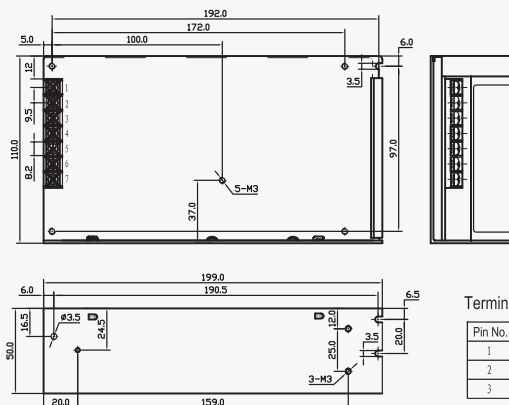
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GS-150-5	GS-150-9	GS-150-12	GS-150-13.5	GS-150-15	GS-150-24	GS-150-27	GS-150-48
Output	DC Voltage	5V	9V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	30A	16.7A	12.5A	11.2A	10A	6.5A	5.6A	3.2A
	Current Range	0-30A	0-16.7A	0-12.5A	0-11.2A	0-10A	0-6.5A	0-5.6A	0-3.2A
	Rated Power	150W	150.3W	150W	151.2W	150W	156W	151.2W	153.6W
	Ripple & Noise	150mVp-p	180mVp-p	180mVp-p	180mVp-p	180mVp-p	240mVp-p	240mVp-p	240mVp-p
	DC Voltage adi. Range	±10%	-12%±15%	-12%±10%	-12%±11%	±10%	-12%±16%	-12%±11%	±10%
	Setup,Rise,Hold Time	100ms,50ms,20ms at full load							
Input	Voltage Range	88~132 VAC/176~264VAC 47~63Hz; selected by switch 248~370VDC							
	AC Current	3.2A/115 V 1.6A/ 230 V							
	Efficiency	78%/	80%	82%	83%	84%	85%	86%	87%
	Inrush Current	Cold start 35A/230VAC							
	Leakage Current	<3.5mA/240VAC							
Protection	Over Load	110%~160%							
	Over Voltage	115%~135%							
Environment	Working Temp., Humidity	-10°C~+60°C; 20%~90 %RH							
	Storage Temp., Humidity	-20°C~+85°C; 10%~95 %RH							
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes							
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M /500VDC							
Standards	Safety Standard	Design refer to UL1012, UL1950, TUV EN60950							
	EMC Standard	Design refer to EN55022 EN61000-3-2, -3; EN61000-4-2, 3, 4, 5, 6, 8, 11. ENV50204, EN55024							
Others	Weight	0.8Kg							
	Packing	14pcs/13.8Kg/0.95CUFT							

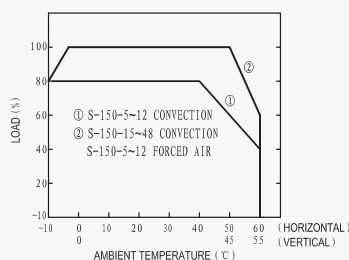
Outline and dimension



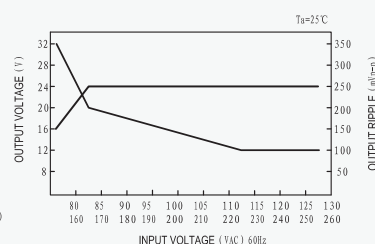
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4, 5	DC OUTPUT -V
2	AC/N	6, 7	DC OUTPUT +V
3	FG		

Derating Curve



Static Characteristics(24V)



200W Single Output
Switching Power Supply



GS-200...

Feature

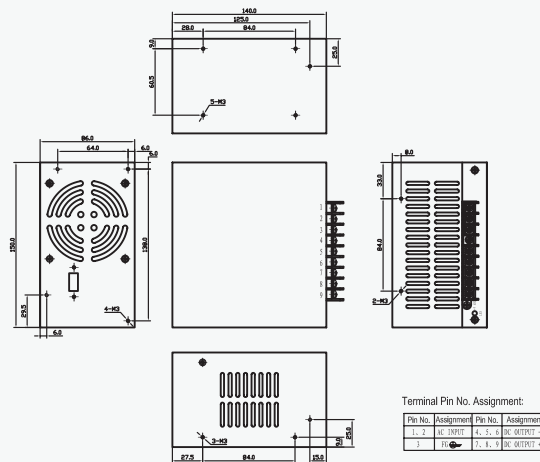
- High efficiency, high reliability
- 100% full load burn-in test
- Protection: Short circuit / Over load
- Compact size, light weight
- High efficiency, low working temp.
- 2 years warranty
- Dimensions: 150*140*86mm (L*W*H)

Notes:

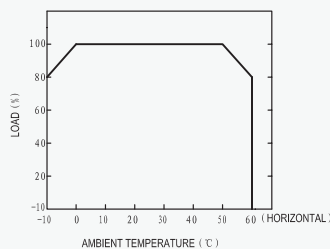
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GS-200-5	GS-200-12	GS-200-15	GS-200-24	GS-200-27
Output	DC Voltage	5V	12V	15V	24V	27V
	Voltage Tolerance	± 1%	± 1%	± 1%	± 1%	± 1%
	Rated Current	40A	16.5A	13.3A	8.5A	7.4A
	Current Range	0-40A	0-16.5A	0-13.5A	0-8.5A	0-7.4A
	Rated Power	200W	200W	200W	204W	200W
	Ripple & Noise	180mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p
	DC Voltage adi. Range	-5%±10%	±10%	±10%	±10%	-4%±18%
	Setup,Rise,Hold Time	200ms,80ms,16ms at full load				
Input	Voltage Range	85~132VAC / 176~264VAC 47~63Hz; selected by switch 248~370VDC				
	AC Current	4.2A/115VAC 2.2A/230VAC				
	Efficiency	75%/	79.5%	80%	81.5%	82%
	Inrush Current	Cold start 30A/115V 60A/230V				
	Leakage Current	<0.5mA/240VAC				
Protection	Over Load	110%~160%		105%~150%		
		Protection type: Shut down o/p voltage, re-power on to recover				
Environment	Working Temp., Humidity	-10℃~+60℃; 20%~90%RH				
	Storage Temp., Humidity	-20℃~+85℃; 10%~95%RH				
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes				
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M /500VDC				
Standards	Safety Standard	Design refer to UL1012				
	EMC Standard	Design refer to FCC Part15 J Conduction Class A				
Others	Weight	1.3Kg				
	Packing	20pcs/26Kg/1.39CUFT				

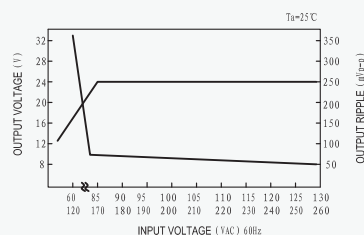
Outline and dimension



Derating Curve



Static Characteristics(24V)



201W Single Output Switching Power Supply



GS-201...

Feature

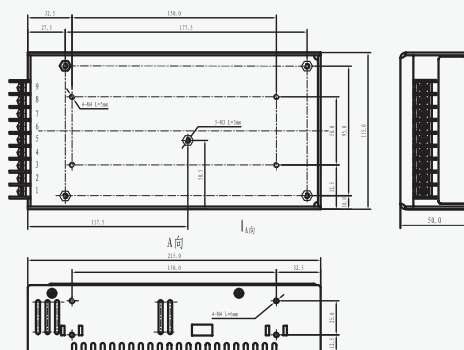
- High efficiency, high reliability, lost cost
- AC input range selected by switch
- Fixed switching frequency at 25KHz
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Cooling by free air convection
- 100% full load burn-in test
- 1 year warranty
- Dimensions: 230*115*50mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS -201-5	GS -201- 7.5	GS -201-12	GS -201-13.5	GS- 201-15	GS- 201-24	GS- 201-27	GS- 201-48
Output	DC Voltage	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	40A	26.5A	16.5A	14.7A	13A	8.3A	7.4A	4.2A
	Current Range	0-40A	0-26.5A	0-16.5A	0-14.7A	0-13A	0-8.3A	0-7.4A	0-4.2A
	Rated Power	200W	198.75W	198W	198.45W	198W	199.2W	199.8W	201.6W
	Ripple & Noise	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
	DC Voltage adi. Range	-10%, +12%	±20%	-16%,+10%	-12%, +11%	-10%+20%	-16%+10%	-4%+18%	-15%+17%
	Setup,Rise,Hold Time	200ms,100ms,20ms at full load							
Input	Voltage Range	90-132 VAC/ 180-264VAC 47-63 Hz;selected by switch 254-370VDC							
	AC Current	4.5A/115VAC2.5A/230VAC							
	Efficiency	74%	79%	80%	80%	81%	83%	83%	84%
	Inrush Current	50A/115V50A/230V							
	Leakage Current	<3.5 mA/240VAC							
Protection	Over Load	115%~135% Protection type: shut down o/p voltage, recovers automatically after fault condition is removed							
	Over Voltage	115%~135% Protection type: hiccup mode,recovers automatically after fault condition is removed							
	Over Temperature	RTH3>=90°C shut down o/p voltage, recovers automatically after temperature goes down							
Environment	Working Temp & Humidity	-10°C~+60°C; 20%~90 %RH							
	Storage Temp & Humidity	-20°C~+85°C; 10%~95 %RH							
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes							
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100M /500VDC							
Standards	Safety Standard	Design refer to UL1950							
	EMC Standard	Drsgn refer to FCC Part 15 J Conduction Class A							
Others	Weight	0.93Kg							
	Packing	12pcs/12Kg/0.98CUFT							

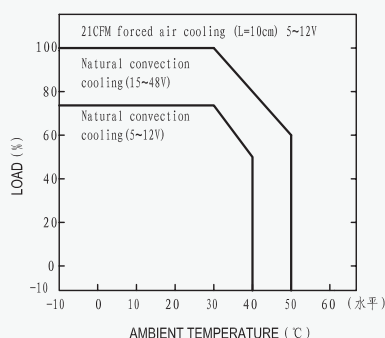
Outline and dimension



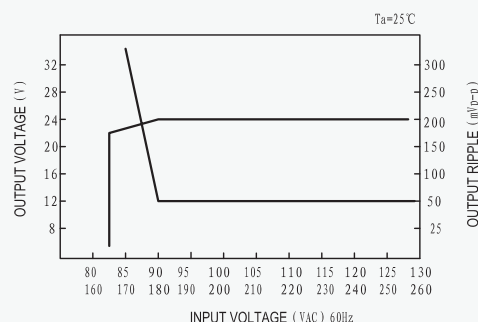
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4~6	DC OUTPUT -V
2	AC/N	7~9	DC OUTPUT +V
3	FG		

Derating Curve



Static Characteristics(24V)



201W Single Output
Switching Power Supply



GS-201T...

Feature

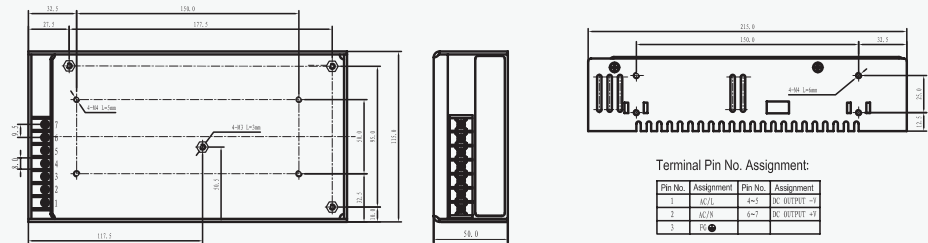
- High efficiency, high reliability, lost cost
- AC input range selected by switch
- Fixed switching frequency at 25KHz
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Cooling by free air convection
- 100% full load burn-in test
- 1 year warranty
- Dimensions: 215*115*50mm(L*W*H)

Notes:

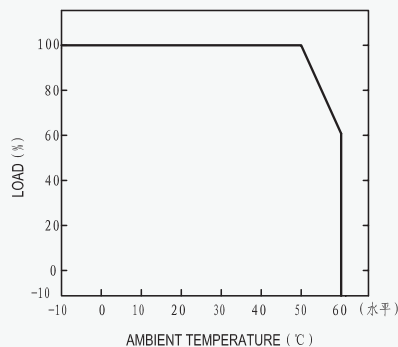
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS -201T-5	GS -201T-7.5	GS -201T-12	GS -201T-13.5	GS -201T-24	GS -201T-27	GS -201T-48
Output	DC Voltage	5V	7.5V	12V	13.5V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%
	Rated Current	40A	26.5A	16.5A	14.7A	8.3A	7.4A	4.2A
	Current Range	0-40A	0-26.5A	0-16.5A	0-14.7A	0-8.3A	0-7.4A	0-4.2A
	Rated Power	200W	198.75W	198W	198.45W	199.2W	199.8W	201.6W
	Ripple & Noise	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
	DC Voltage adi. Range	-10%, +12%	±20%	-16%, +10%	-12%, +11%	-16%, +10%	-4%, +18%	-15%, +17%
	Setup,Rise,Hold Time	200ms,100ms,20ms at full load						
Input	Voltage Range	90-132 VAC/180-264VAC47-63 Hz; selected by switch 254-370VDC						
	AC Current	4.5A/115VAC2.5A/230VAC						
	Efficiency	74%	79%	80%	80%	83%	83%	84%
	Inrush Current	50A/115V 50A/230V						
	Leakage Current	<3.5 mA/240VAC						
Protection	Over Load	115%~135% Protection type: shut down o/p voltage, recovers automatically after fault condition is removed						
	Over Voltage	115%~135% Protection type: hiccup mode,recovers automatically after fault condition is removed						
	Over Temperature	RTH3>=90°C, shut down o/p voltage, recovers automatically after temperature goes down						
Environment	Working Temp & Humidity	-10°C~+60°C; 20%-90 %RH						
	Storage Temp & Humidity	-20°C~ +85°C; 10%-95 %RH						
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes						
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC						
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100M /500VDC						
Standards	Safety Standard	Design refer to UL1950						
	EMC Standard	Drsign refer to FCC Part 15 J Conduction Class A						
Others	Weight	0.93Kg						
	Packing	12pcs/12Kg/0.98CUFT						

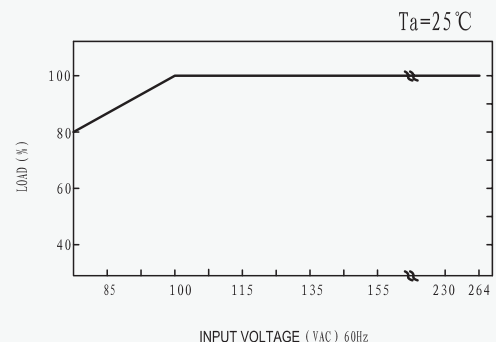
Outline and dimension



Derating Curve



Output derating VS input voltage



250W Single Output
Switching Power Supply



GS-250...

Feature

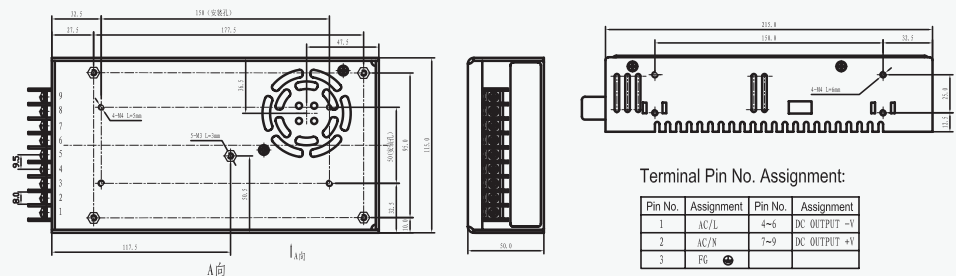
- High efficiency, high reliability
- Universal AC input / full range
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage
- Forced air cooling by built in DC fan
- Built-in cooling Fan ON-OFF control
- 1 year warranty
- Dimensions: 215*115*50mm(L*W*H)

Notes:

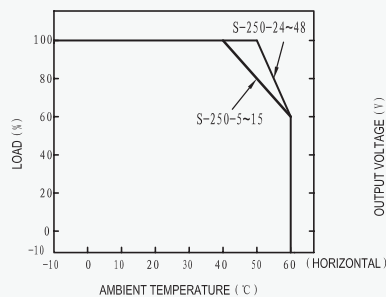
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS -250-5	GS -250-7.5	GS -250-12	GS -250-13.5	GS -250-15	GS -250-24	GS -250-27	GS -250-48
Output	DC Voltage	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	40A	30A	20A	18.5A	16.6A	10A	9.3A	5.2A
	Current Range	0-40A	0-30A	0-20A	0-18.5A	0-16.6A	0-10A	0-9.3A	0-5.2A
	Rated Power	200W	225W	240W	250W	249W	240W	251W	250W
	Ripple & Noise	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240 mVp-p
	DC Voltage adi. Range	-10%, +12%	±20%	-16%, +10%	-12%, +11%	-10%, +20%	-16%, +10%	-4%, +18%	-15%, +17%
	Setup,Rise,Hold Time	200ms,100ms,20ms at full load							
Input	Voltage Range	90~132 VAC/180~264VAC 47~63 Hz;selected by switch 254~370VDC							
	AC Current	5.5A/115VAC 50A/230VAC							
	Efficiency	74%	76%	78%	79%	78%	82%	82%	83%
	Inrush Current	Cold start 25A/115V50A/230V							
	Leakage Current	<3.5 mA/240VAC							
Protection	Over Load	105%~135% Protection type: hiccup mode,recovers automatically after fault condition is removed							
	Over Voltage	115%~135% Protection type: hiccup mode,recovers automatically after fault condition is removed							
	Over Temperature	RTH3>=45°C, FAN ON <=40°C FAN OFF, >=85°C output shutdown							
Environment	Working Temp & Humidity	-10°C~+50; 20%~90 %RH							
	Storage Temp & Humidity	-20°C~+85°C; 10%~95 %RH							
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes							
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100M /500VDC							
Standards	Safety Standard	Design refer to UL1950							
	EMC Standard	Design refer to EN55022, EN55024, EN61000							
Others	Weight	1.15Kg							
	Packing	12pcs/13.8Kg/0.98CUFT							

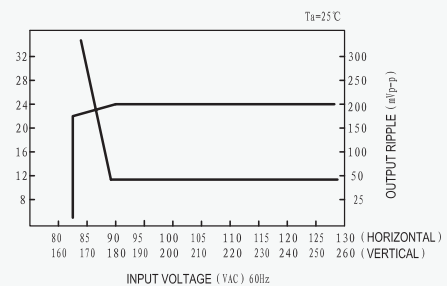
Outline and dimension



Derating Curve



Static Characteristics(24V)



250W Single Output Switching Power Supply



GS-250T...

Feature

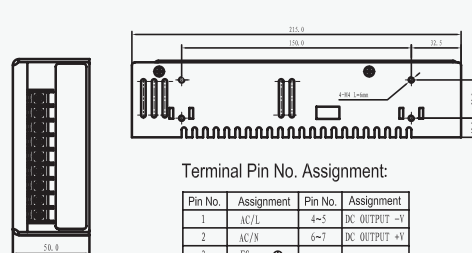
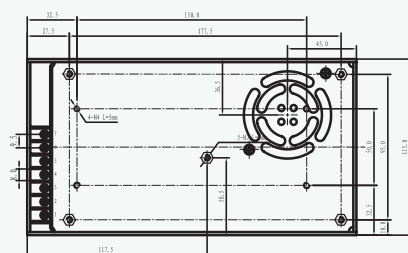
- High efficiency, high reliability, low cost
- Universal AC input / full range
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage
- Forced air cooling by built in DC fan
- Built-in cooling Fan ON-OFF control
- 1 year warranty
- Dimensions: 215*115*50mm(L*W*H)

Notes:

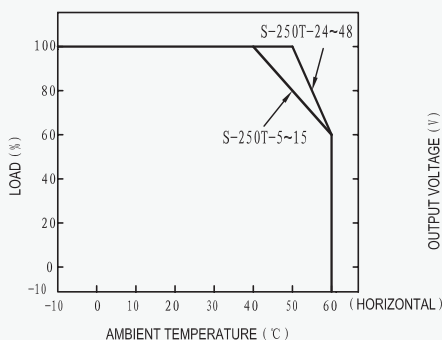
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS-250T-5	GS-250T-7.5	GS-250T-12	GS-250T-13.5	GS-250T-15	GS-250T-24	GS-250T-27	GS-250T-48
Output	DC Voltage	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	40A	30A	20A	18.5A	16.6A	10A	9.3A	5.2A
	Current Range	0-40A	0-30A	0-20A	0-18.5A	0-16.6A	0-10A	0-9.3A	0-5.2A
	Rated Power	200W	225W	240W	250W	249W	240W	251W	250W
	Ripple & Noise	120mVp-p	120mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
	DC Voltage adi. Range	-10% +12%	±20%	-16% +10%	-12% +11%	-10% +20%	-16% +10%	-4% +18%	-15% +17%
	Setup, Rise, Hold Time	200ms, 50ms, 20ms at full load							
Input	Voltage Range	90~132 VAC/ 180~264VAC 47~63 Hz; selected by switch 254~370VDC							
	AC Current	5.5A/115VAC 50A/230VAC							
	Efficiency	74%	76%	78%	79%	78%	82%	82%	83%
	Inrush Current	25A/115V 50A/230V							
	Leakage Current	<3.5 mA/240VAC							
Protection	Over Load	105%~135% Protection type: hiccup mode, recovers automatically after fault condition is removed							
	Over Voltage	115%~135% Protection type: hiccup mode, recovers automatically after fault condition is removed							
	Cooling Type	RTH3>=45°C FAN ON <=40°C FAN OFF, >=85°C output shutdown							
	Working Temp & Humidity	-10°C~+50°C; 20%~90 %RH							
Environment	Storage Temp & Humidity	-20°C~+85°C; 10%~95 %RH							
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes							
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100M/500VDC							
Standards	Safety Standard	Design refer to UL1950							
	EMC Standard	Design refer to EN55022, EN55024, EN61000							
Others	Weight	1.15Kg							
	Packing	12pcs/13.8Kg/0.98CUFT							

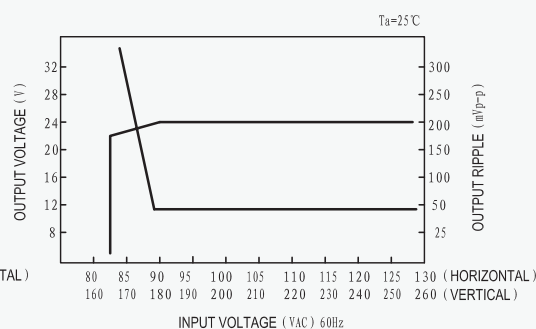
Outline and dimension



Derating Curve



Static Characteristics(24V)



320W Single Output
Switching Power Supply



GS-320...

Feature

- High efficiency, high reliability
- AC input range selected by switch
- 100% full load burn-in test
- Protection:
 - Short circuit/ Over load /Over voltage
- Forced air cooling by built in DC fan
- Cooling Fan ON-OFF auto control
- Fixed switching frequency at 90KHz
- 2 years warranty
- Dimensions: 215*115*50mm (L*W*H)

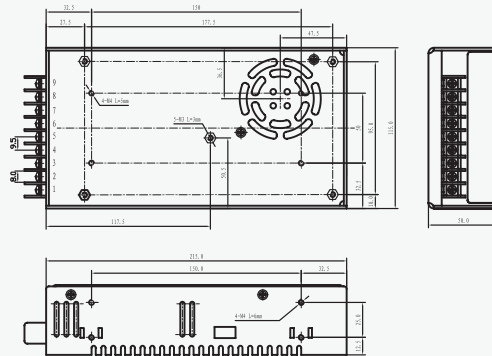
Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GS-320-5	GS-320-7.5	GS-320-12	GS-240-13.5	GS-320-15	GS-320-24	GS-320-27	GS-320-48
Output	DC Voltage	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	50A	36A	25A	22A	20A	12.5A	11A	6.5A
	Current Range	0-50A	0-36A	0-25A	0-22A	0-20A	0-12.5A	0-11A	0-6.5A
	Rated Power	250W	270W	300W	297W	300W	300W	297W	312W
	Ripple & Noise	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
	DC Voltage adi. Range	-10%, +14%	±20%	-16%, +10%	-12%, +11%	-10%, +20%	-16%, +10%	-4%, ±18%	-15%, ±17%
Input	Setup,Rise,Hold Time	2s,20ms,20ms at full load							
	Voltage Range	88~132 VAC/176~264VAC 47~63 Hz; Auto swiched 248~370VDC							
	AC Current	6A/115 V 3.5A/230 V							
	Efficiency	77%/	80%	82%	83%	84%	86%	86%	87%
	Inrush Current	Cold start 20A/115V 40A/230V							
Protection	Leakage Current	<3.5mA/240VAC							
	Over Load	105%~135% Protection type: shut down o/p voltage, recovers automatically after fault condition is removed							
	Over Voltage	115%~135% Protection type: hiccup mode, recovers automatically after fault condition is removed							
	Fan Control	RT1 ≥ 65°C FAN ON, ≤ 55°C FAN OFF, ≥ 70°C output shutdown(5~15V) RT1 ≥ 70°C FAN ON, ≤ 65°C FAN OFF, ≥ 80°C output shutdown(24~48V)							
Environment	Working Temp., Humidity	-10°C~+60°C, 20%~90 %RH							
	Storage Temp., Humidity	-20°C~+85°C, 10%~95 %RH							
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min,each along X, Y, Z axes							
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M /500VDC							
	Safety Standard	Design refer to UL1950							
Standards	EMC Standard	Design refer to EN55022, EN55024, EN61000							
	Weight	1.08Kg							
Others	Packing	12pcs/13.8Kgs/0.98CUFT							

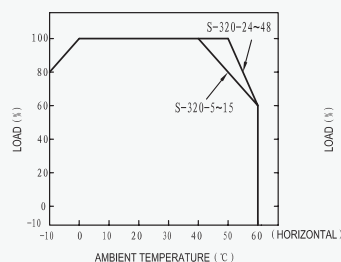
Outline and dimension



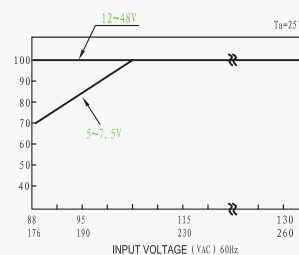
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4~6	DC OUTPUT -V
2	AC/N	7~9	DC OUTPUT +V
3	FG		

Derating Curve



Static Characteristics



350W Single Output
Switching Power Supply



GS-350...

Feature

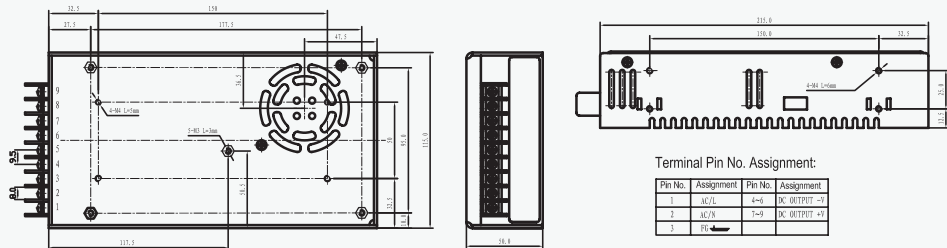
- Universal AC input / full range
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage
- PWM control and regulated
- Forced air cooling by built in DC fan
- Built-in cooling Fan ON-OFF control
- Fixed switching frequency at 25KHz
- 1 year warranty
- Dimensions: 215*115*50mm(L*W*H)

Notes:

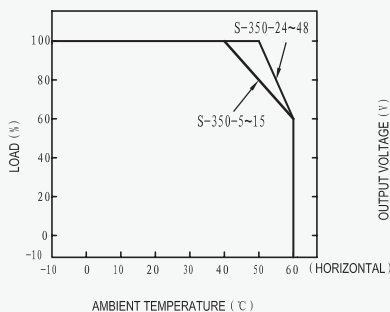
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GS-350-5	GS-350-7.5	GS-350-12	GS-350-13.5	GS-350-15	GS-350-24	GS-350-27	GS-350-48
Output	DC Voltage	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	50A	40A	29A	25.8A	23.2A	14.6A	13A	7.3A
	Current Range	0-50A	0-40A	0-29A	0-25.8A	0-23.2A	0-14.6A	0-13A	0-7.3A
	Rated Power	250W	300W	348W	348.3W	348W	350.4W	351W	350.4W
	Ripple & Noise	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
	DC Voltage adi. Range	-10%, +12%	±20%	-16%, +10%	-12%, +11%	-10%, +20%	-16%, +10%	-4%, +18%	-15%, +17%
	Setup,Rise,Hold Time	200ms,50ms,20ms at full load							
Input	Voltage Range	90~132 VAC/ 180~264VAC 47~63 Hz;selected by switch 254~370VDC							
	AC Current	6.5A/115 V 4A/ 230 V							
	Efficiency	73%	76%	74%	79%	78%	81%	82%	83%
	Inrush Current	Cold start 50A/115V50A/230V							
	Leakage Current	<3.5 mA/240VAC							
Protection	Over Load	105%~135% Protection type: Fold back current limiting, recovers automatically after fault condition is removed							
	Over Voltage	115%~135% Protection type: hiccup mode, recovers automatically after fault condition is removed.							
	Fan ON/OFF Control	RT3≥55℃ FAN ON□≤45℃ FAN OFF□≥80℃ output shutdown (5~7.5V) RT3≥65℃ FAN ON□≤55℃ FAN OFF□≥80℃ output shutdown (12~15V) RT3≥70℃ FAN ON□≤60℃ FAN OFF□≥85℃ output shutdown (24~48V)							
Environment	Working Temp & Humidity	-10℃~+50℃; 20%~90 %RH							
	Storage Temp & Humidity	-20℃~+85; 10%~95 %RH							
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes							
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100M /500VDC							
Standards	Safety Standard	Design refer to UL1950							
	EMC Standard	Design refer to EN55022, EN55024, EN61000							
Others	Weight	1.07Kg							
	Packing	12pcs/13.5Kg/0.98CUFT							

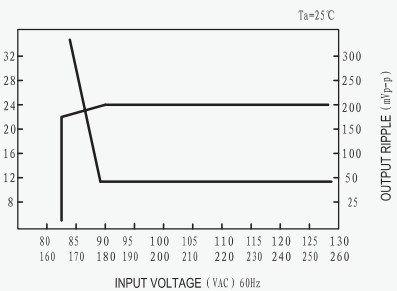
Outline and dimension



Derating Curve



Static Characteristics(24V)



30W Dual Output Switching Power Supply



GD-30G...

Feature

- High efficiency, high reliability, low cost
- AC input range selected by switch
- Protections: Short circuit/ Over load
- Cooling by free air convection
- LED indicator for power on
- Fixed switching frequency at 23KHz
- Output is isolated from the others
- 1 year warranty
- Dimensions: 129*98*38mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

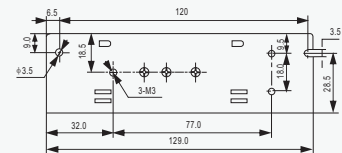
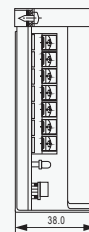
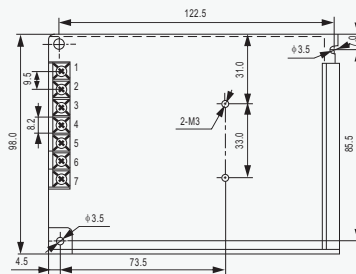
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

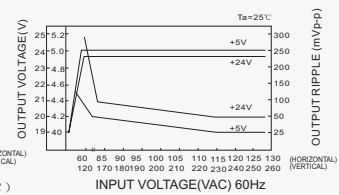
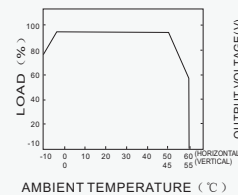
Model		GD-30G	
		CH1	CH2
Output	DC Voltage	15V	15V
	Voltage Tolerance	±1%	±1%
	Rated Current	1A	1A
	Current Range	0.1-1A	0.1-1A
	Rated Power	30W	
	Ripple & Noise	100mVp-p	
	DC Voltage adi. Range	CH1: +10, -5%	
	Setup,Rise,Hold Time	200ms, 50ms, 30ms at full load	
Input	Voltage Range	85~132 VAC/176~264VAC selected by switch 47~63Hz; 120~370VDC	
	AC Current	0.8A/115 VAC 0.45A/230 VAC	
	Efficiency	74%	
	Inrush Current	Cold start 18A/115V 36A/230V	
	Leakage Current	<1mA/240VAC	
Protection	Over Load	105%~150%	
		Protection type: Shut down o/p voltage, recovers automatically after fault condition is removed	
Environment	Working Temp., Humidity	-10°C~+60°C, 20%~90 %RH	
	Storage Temp., Humidity	-20°C~+85°C, 10%~95 %RH	
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min,each along X, Y, Z axes	
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100MΩ/500VDC	
Standards	Safety Standard	Design refer to UL1012	
	EMC Standard	Design refer to FCC Part15 J Conduction Class A	
Others	Weight	0.41Kg	
	Packing	45pcs/17Kgs/1.22CUFT	

Outline and dimension



Derating Curve

Static Characteristics(B)



Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT COM	7	DC OUTPUT +V1
2	AC/N	5	DC OUTPUT +V2		
3	FG	6	DC OUTPUT COM		

30W Dual Output Switching Power Supply



GD-30A...

Feature

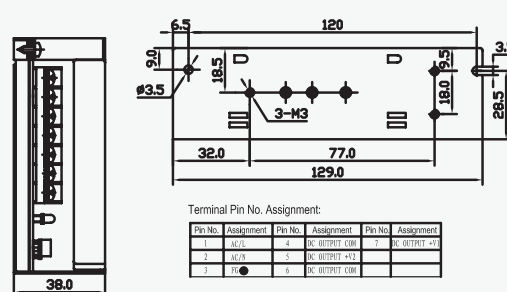
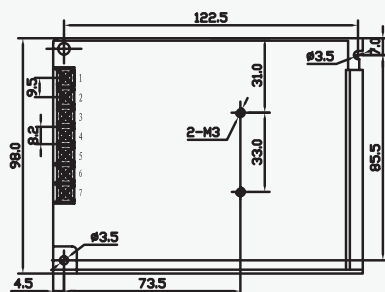
- High efficiency, high reliability, low cost
- AC input range selected by switch
- Protections: Short circuit / Over load
- LED indicator for power on
- Fixed switching frequency at 23KHz
- Cooling by free air convection
- 1 year warranty
- Dimensions: 129*98*38mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GD-30A		GD-30B	
		CH1	CH2	CH1	CH2
Output	DC Voltage	5V	12V	5V	24V
	Voltage Tolerance	±2%	+3..7%	±2%	+3..5%
	Rated Current	4A	1A	2.2A	1A
	Current Range	0.5-4A	0.1-1A	0.5-4A	0.1-1A
	Rated Power	32W		35W	
	Ripple & Noise	50mVp-p	100 mVp-p	50mVp-p	100 mVp-p
	DC Voltage adi. Range	CH1:-5%,+10%		CH1:-5%,+10%	
	Setup,Rise,Hold Time	200ms,50ms,30ms at full load			
Input	Voltage Range	85-132 VAC/ 170-264VAC selected by switch, 240-370VDC;47-63 Hz			
	AC Current	0.8 A/115 V 0.45A/ 230 V			
	Efficiency	72%		74%	
	Inrush Current	Cold start 18A/115V 36A/230V			
	Leakage Current	<1mA/240VAC			
Protection	Over Load	105%~150%			
		Protection type: Shutdown o/p voltage, recovers automaticallyafter fault condition is removed			
Environment	Working Temp., Humidity	-10℃~+60℃; 20%~90 %RH			
	Storage Temp., Humidity	-20℃~+85℃; 10%~95 %RH			
	Vibration	10-500H, 2G 10min./1cycl, period for 60 min, each along X,Y, Z, axes			
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC			
Standards	Safety Standard	Design refer to UL1012			
	EMC Standard	Design refer to FCC Part15 J Conduction Class A			
Others	Weight	0.41Kg			
	Packing	45pcs/18.5Kg/1.22CUFT			

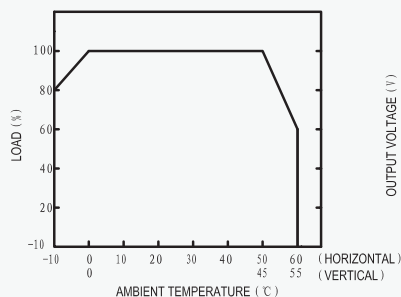
Outline and dimension



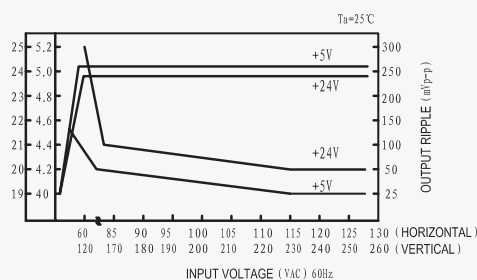
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT COM	7	DC OUTPUT +V
2	AC/N	5	DC OUTPUT +V2		
3	FG	6	DC OUTPUT COM		

Derating Curve



Static Characteristics(24V)



50W Dual Output
Switching Power Supply



GD-50...

Feature

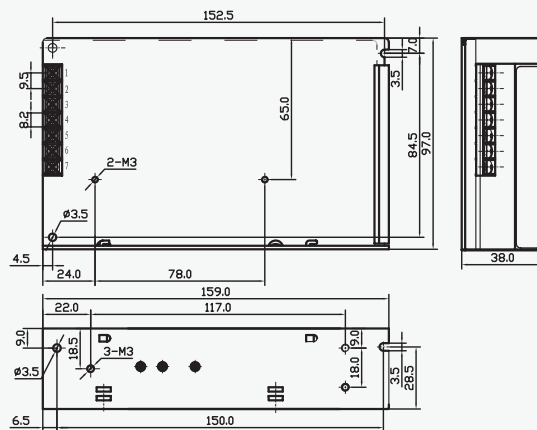
- High efficiency, high reliability, low cost
- AC input range selected by switch
- Protections: Short circuit / Over load
- LED indicator for power on
- Fixed switching frequency at 23KHz
- Cooling by free air convection
- 1 year warranty
- Dimensions: 129*98*38mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GD-50A		GD-50B	
		CH1	CH2	CH1	CH2
Output	DC Voltage	5V	12V	5V	24V
	Voltage Tolerance	±2%	+5~8%	±2%	±8%
	Rated Current	6A	2A	6A	1A
	Current Range	1-6A	0.3-2A	1-6A	0.2-1A
	Rated Power	54W		54W	
	Ripple & Noise	50mVp-p	100 mVp-p	50mVp-p	100 mVp-p
	DC Voltage adi. Range	CH1:-5%,+10%			
	Setup,Rise,Hold Time	200ms,50ms,20ms at full load			
Input	Voltage Range	85~132 VAC/170~264VAC selected by switch, 240~370VDC; 47~63 Hz			
	AC Current	1.3A/115 V 0.65A/ 230 V			
	Efficiency	73%		73%	
	Inrush Current	Cold start 18A/115V 36A/230V			
	Leakage Current	<0.5mA/240VAC			
Protection	Over Load	105%~150%			
		Protection type: Shutdown o/p voltage, recovers automatically after fault condition is removed			
Environment	Working Temp., Humidity	-10°C~-+60°C; 20%~90 %RH			
	Storage Temp., Humidity	-20°C~-+85°C; 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min./1cycl, period for 60 min, each along X,Y,Z, axes			
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC			
Standards	Safety Standard	Design refer to UL1012			
	EMC Standard	Design refer to FCC Part 15 J Conduction			
Others	Weight	0.53Kg			
	Packing	30pcs/16Kg/0.86CUFT			

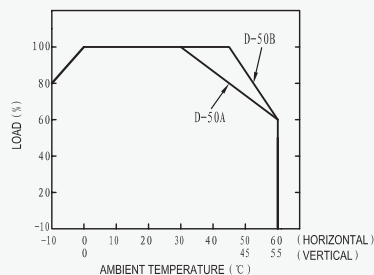
Outline and dimension



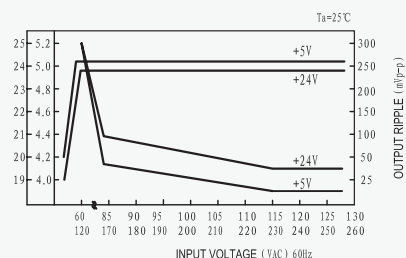
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT +V2
2	AC/N	5, 6	DC OUTPUT COM
3	FG	7	DC OUTPUT +V1

Derating Curve



Static Characteristics(B)



50W Isolated Dual Output Switching Power Supply



GID-50...

Feature

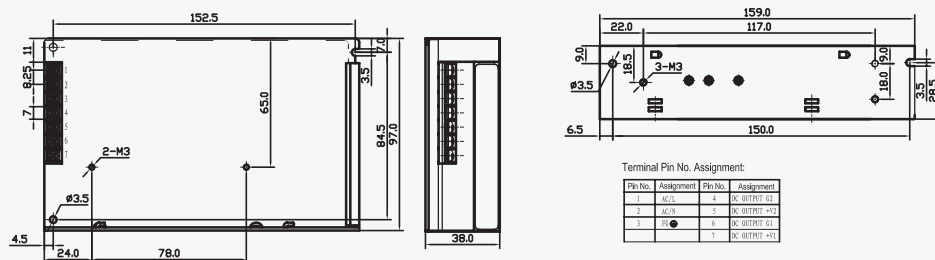
- High efficiency, high reliability, low cost
- Universal AC input / full range
- 100% full load burn-in test
- Protections: Short circuit/ Over load / Over voltage
- Cooling by free air convection
- Fixed switching frequency at 50KHz
- 1 year warranty
- Dimensions: 159*97*38mm (L*W*H)
- Isolated output & GND for CH1, CH2

Notes:

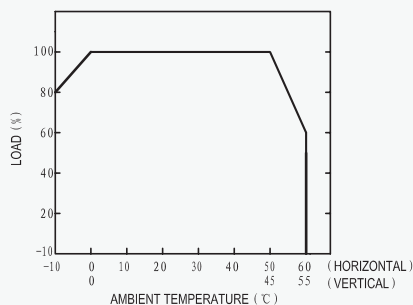
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GID-50A		GID-50B		GID-50C		GID-50D	
		CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2
Output	DC Voltage	5V	5V	13.5V	13.5V	27V	27V	5V	13.5V
	Voltage Tolerance	±1%	±2%	±1%	±2%	±1%	±2%	±1%	±2%
	Rated Current	6A	2A	1.8	1.8A	0.9A	0.9A	5A	1.7A
	Current Range	0.5-6A	0-2A	0.3-2A	0-2A	0.18-1A	0-1A	1-5A	0-2A
	Rated Power	40W		48.6W		48.6W		48W	
	Ripple & Noise	50mVp-p	100mVp-p	100mVp-p	150mVp-p	100mVp-p	150mVp-p	50mVp-p	150mVp-p
	DC Voltage adi. Range	-5%, +10%		+11%		+11%		-5%, +10%	
	Setup,Rise,Hold Time	1600ms,50ms,100ms at full load							
Input	Voltage Range	85~264VAC 47~63 Hz, selected by 120~370VDC							
	AC Current	1A/115 V0.6A/ 230 V							
	Efficiency	66%		70%		72%		68%	
	Inrush Current	Cold start 18A/115V 36A/230V							
	Leakage Current	<3.5 mA/240VAC							
Protection	Over Load	105%~150%							
		Protection type: hiccup mode, recovers automatically after fault condition is removed.							
	Over Voltage	125%~150%							
Protection type: hiccup mode, recovers automatically after fault condition is removed									
Environment	Working Temp & Humidity	-10°C~-+60°C; 20%-90 %RH							
	Storage Temp & Humidity	-20°C~-+85°C; 10%-95 %RH							
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes							
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVACO/P-FG: 0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC							
Standards	Safety Standard	Design refer to UL1012							
	EMC Standard	Design refer to FCC Part15							
Others	Weight	0.54Kg							
	Packing	30pcs/16Kg/0.86CUFT							

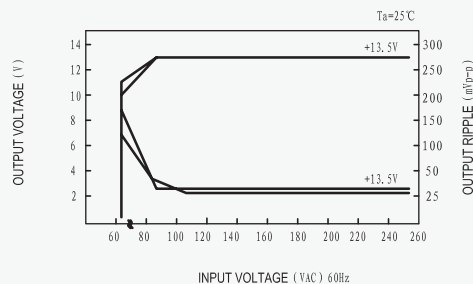
Outline and dimension



Derating Curve



Static Characteristics(B)



60W Dual Output Switching Power Supply



GD-60...

Feature

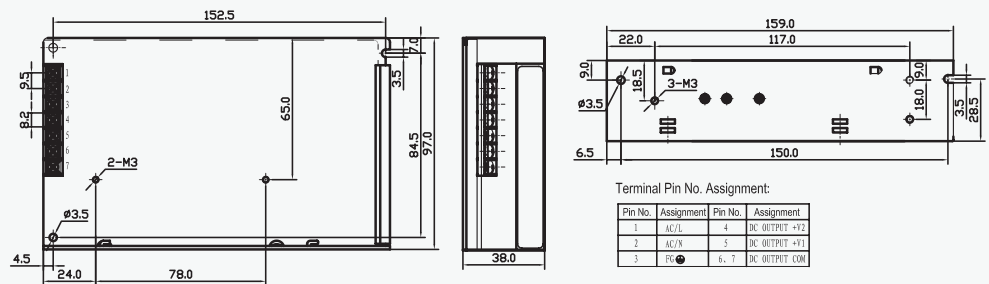
- High efficiency, high reliability
- Universal AC input /full range
- 100% full load burn-in test
- Protection:
Short circuit/ Over load /Over voltage
- LED indicator for power on
- Cooling by free air convection
- Fixed switching frequency at 54KHz
- 2 years warranty
- Dimensions: 159*97*38mm (L*W*H)

Notes:

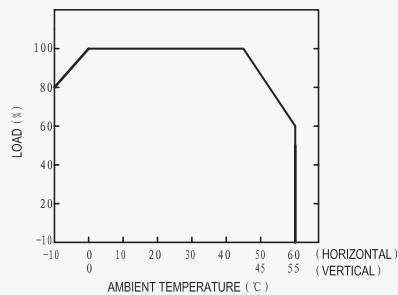
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GD-60A		GD-60B	
		CH1	CH2	CH1	CH2
Output	DC Voltage	5V	12V	5V	24V
	Voltage Tolerance	±2%	±6%	±2%	±5%
	Rated Current	4A	3A	3A	1.8A
	Current Range	0.3-6A	0.2-4A	0.3-6A	0.2-2A
	Rated Power	56W		58W	
	Ripple & Noise	75mVp-p	150mVp-p	75mVp-p	150mVp-p
	DC Voltage adi. Range	CH1: -5%, +10%			
	Setup,Rise,Hold Time	300ms,50ms ,80ms/230VAC800ms,50ms, 10ms/115VAC at full load			
Input	Voltage Range	85~264 VAC/ 47~63 Hz, 120~370VDC			
	AC Current	2A/115 V1A/ 230 V			
	Efficiency	73%		76%	
	Inrush Current	Cold start 30A/115VAC60A/230VAC			
	Leakage Current	<0.75mA/240VAC			
Protection	Over Load	105%~150%			
		Protection type: Shut down o/p voltage, recovers automatically after fault condition is removed			
	Over Voltage	115%~135%			
		Protection type: hiccup mode, auto-recovery			
Environment	Working Temp & Humidity	-10°C+60°C, 20%~90 %RH			
	Storage Temp & Humidity	-20°C+85°C, 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC			
Standards	Safety Standard	Design refer to UL1012 , UL60950 ,EN60950			
	EMC Standard	Design refer to EN55022(CLSPR22),EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024			
Others	Weight	0.54Kg			
	Packing	30pcs/16Kg/0.86CUFT			

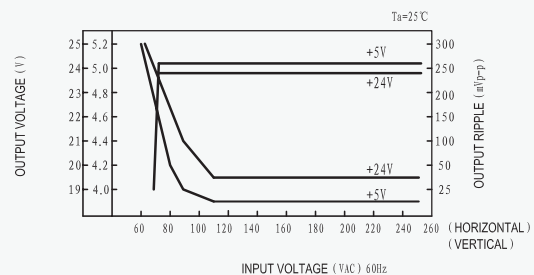
Outline and dimension



Derating Curve



Static Characteristics(B)



70W Dual Output Switching Power Supply



GD-70G...

Feature

- High efficiency, high reliability
- Universal AC input /full range
- 100% full load burn-in test
- Protection:
Short circuit/ Over load /Over voltage
- LED indicator for power on
- Cooling by free air convection
- Fixed switching frequency at 54KHz
- 2 years warranty
- Dimensions: 159*97*38mm (L*W*H)
- Dual output high power density

Notes:

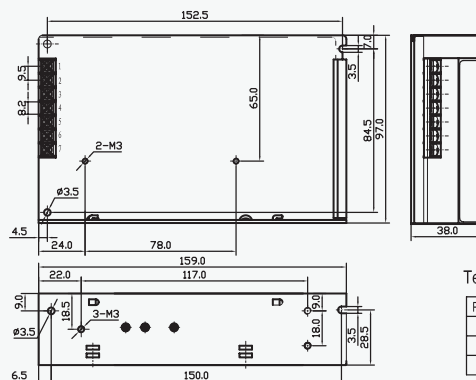
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GD-70G	
		CH1	CH2
Output	DC Voltage	15V	15V
	Voltage Tolerance	±1%	±1%
	Rated Current	2.5A	2.5A
	Current Range	0.3-3A	0.2-3A
	Rated Power	75W	
	Ripple & Noise	100mVp-p	
	DC Voltage adi. Range	CH1: -5%, +10%	
Input	Setup,Rise,Hold Time	800ms,50ms,10ms/115VAC300ms,50ms ,80ms/230VAC at full load	
	Voltage Range	85~264 VAC/ 47~63 Hz, 120~370VDC	
	AC Current	2A/115 V1A/ 230 V	
	Efficiency	75%	
	Inrush Current	Cold start 30A/115V 60A/230V	
Protection	Leakage Current	<3.5mA/240VAC	
	Over Load	105%~150%	
	Over Voltage	115%~135%	
Environment	Working Temp & Humidity	-10°C~+50°C, 20%~90 %RH	
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH	
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes	
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC	
Standards	Safety Standard	Design refer to UL1012 , UL60950 ,EN60950	
	EMC Standard	Design refer to EN55022(CLSPP22),EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024	
Others	Weight	0.54Kg	
	Packing	30pcs/17Kg/0.86CUFT	

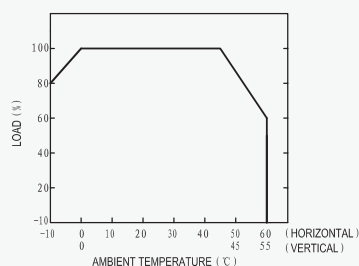
Outline and dimension



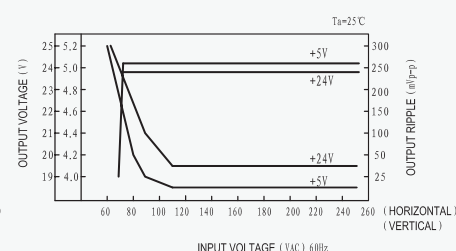
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT +V2
2	AC/N	5	DC OUTPUT +V1
3	FG	6, 7	DC OUTPUT COM

Derating Curve



Static Characteristics(B)



120W Dual Output Switching Power Supply



GD-120...

Feature

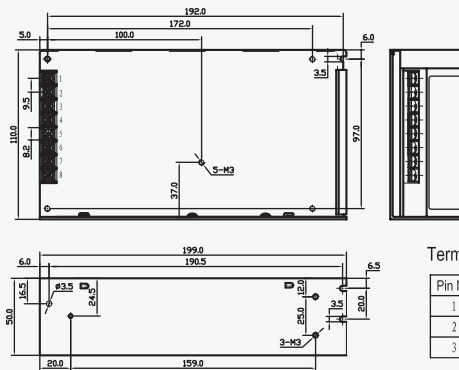
- High efficiency, high reliability
- AC input range selected by switch
- 100% full load burn-in test
- Protection:
Short circuit/ Over load /Over voltage
- Cooling by free air convection
- Fixed switching frequency at 28KHz
- 2 years warranty
- Dimensions: 199*110*50mm (L*W*H)

Notes:

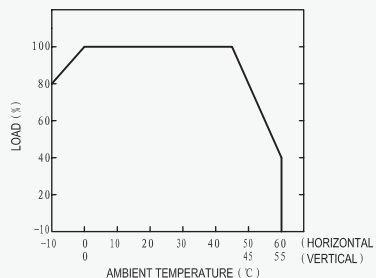
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GD-120A		GD-120B	
		CH1	CH2	CH1	CH2
Output	DC Voltage	5V	12V	5V	24V
	Voltage Tolerance	±2%	±6%	±2%	±7%
	Rated Current	12A	5A	6A	4A
	Current Range	2-12A	0.5-5A	2-10A	0.4-4A
	Rated Power	120W		126W	
	Ripple & Noise	60mVp-p	120mVp-p	60mVp-p	150mVp-p
	DC Voltage adi. Range	CH1: -5%, +10%			
	Setup,Rise,Hold Time	200ms,50ms,20ms at full load			
Input	Voltage Range	88~132 VAC / 176~264VAC 47~63 Hz; selected by switch 248~370VDC			
	AC Current	2.8A/115V 1.6A/ 230 V			
	Efficiency	78%		80%	
	Inrush Current	Cold start 35A			
	Leakage Current	<3.5mA/240VAC			
Protection	Over Load	105%~135%			
		Protection type: Shut down o/p voltage , re-power on to recover			
	Over Voltage	115%~135%			
		Protection type: Shut down o/p voltage, re-power on to recover			
Environment	Working Temp & Humidity	-10˚C~+60˚C, 20%~90 %RH			
	Storage Temp & Humidity	-20˚C~+85˚C, 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG:0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC			
Standards	Safety Standard	Design refer to UL1012 , UL60950 ,EN60950			
	EMC Standard	Design refer to EN55022(CLSPR22),EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024			
Others	Weight	0.82Kg			
	Packing	14pcs/13Kg/0.95CUFT			

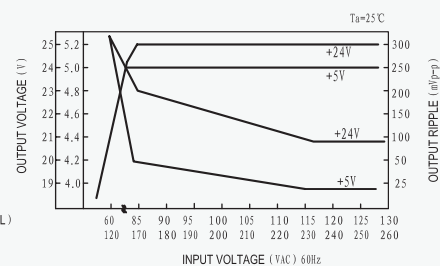
Outline and dimension



Derating Curve



Static Characteristics(B)



30W Triple Output Switching Power Supply



GT-30...

Feature

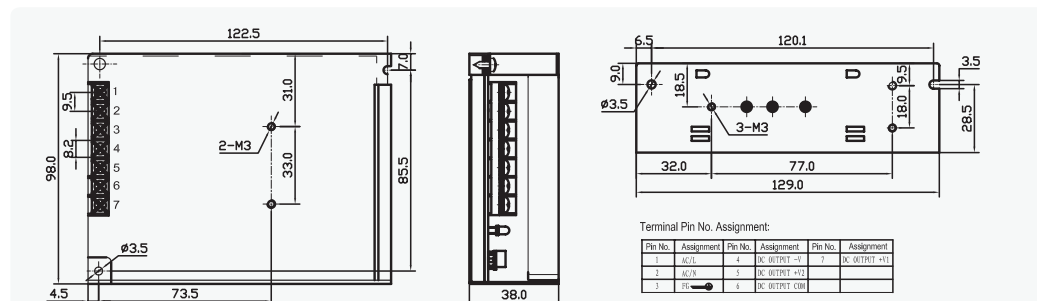
- High efficiency, high reliability, low cost
- AC input range selected by switch
- Protections: Short circuit/ Over load
- LED indicator for power on
- Cooling by free air convection
- Fixed switching frequency at 50KHz
- 1 year warranty
- Dimensions 129*98*38mm(L*W*H)

Notes:

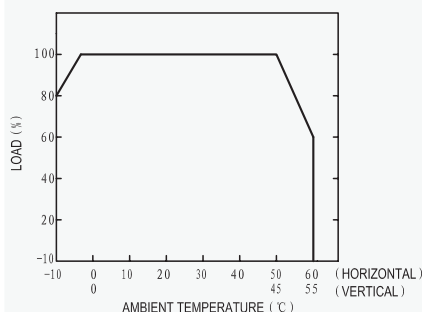
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GT-30A			GT-30B		
		CH1	CH2	CH3	CH1	CH2	CH3
Output	DC Voltage	5V	12V	-5V	5V	12V	-5V
	Voltage Tolerance	±1%	+2%,-6%	+2%,-10%	±2%	+2%,-6%	±6%
	Rated Current	3A	1A	0.5	3A	1A	0.5
	Current Range	0.5-3A	0.1-1A	0.1-0.5A	0.5-3A	0.1-1A	0.1-0.5A
	Rated Power	30W			33W		
	Ripple & Noise	50mVp-p	100mVp-p	50mVp-p	50mVp-p	100mVp-p	50mVp-p
	DC Voltage adi. Range	CH1: -5%, +10%					
	Setup,Rise,Hold Time	200ms,100ms,30ms at full load					
Input	Voltage Range	85~132 VAC/170~264VAC 47~63 Hz; selected by switch 40~370VDC					
	AC Current	0.8A/115 V0.45A/ 230 V					
	Efficiency	70%			72%		
	Inrush Current	Cold start 18A/115V36A/230V					
	Leakage Current	<0.75mA/240VAC					
Protection	Over Load	105%~150%					
		Protection type: Fold back current limiting, recovers automatically after fault condition is removed					
Environment	Working Temp & Humidity	-10°C~-+60°C; 20%~90 %RH					
	Storage Temp & Humidity	-20°C~-+85°C; 10%~95 %RH					
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes					
Safety	Withstand Voltage	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG: 0.5KVAC					
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG:100M /500VDC					
Standards	Safety Standard	Design refer to UL 1012					
	EMC Standard	Design refer to FCC Part15 J Conduction Class A					
Others	Weight	0.42Kg					
	Packing	30pcs/13.6Kg/0.86CUFT					

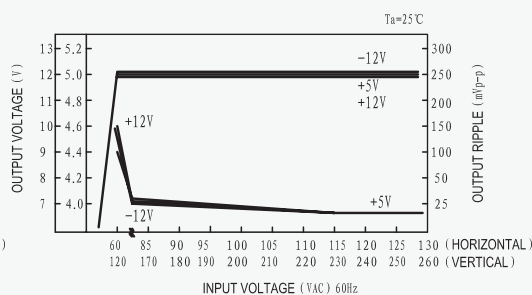
Outline and dimension



Derating Curve



Static Characteristics(B)



40W Triple Output Switching Power Supply



GT-40...

Feature

- High efficiency, high reliability
- Universal AC input / full range
- 100% full load burn-in test
- Protection:
Short circuit/ Over load /Over voltage
- Cooling by free air convection
- Fixed switching frequency at 40KHz
- 2 years warranty
- Dimensions: 129*98*38mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

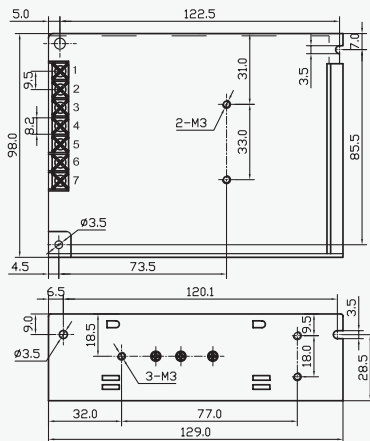
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GT-40A			GT-40B			GT-40C		
		CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
Output	DC Voltage	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V
	Voltage Tolerance	±2%	±6%	±8%	±2%	±6%	±8%	±2%	±6%	±6%
	Rated Current	3A	2A	0.5A	3A	2A	0.5A	3A	1.5A	0.5A
	Current Range	0.6-5A	0.2-3A	0.1-1A	0.6-5A	0.2-3A	0.1-1A	0.6-5A	0.2-3A	0.1-1A
	Rated Power	41.5W			45W			45W		
	Ripple & Noise	100mVp-p	100mVp-p	120mVp-p	100mVp-p	120mVp-p	120mVp-p	100mVp-p	120mVp-p	120mVp-p
	DC Voltage adi. Range	CH1: -5%, +10%								
Input	Setup,Rise,Hold Time	800ms,50ms,60ms/230VAC 1.6ms,50ms, 16ms/115VAC at full load								
	Voltage Range	85~264 VAC / 47~63 Hz, 120~370VDC								
	AC Current	1.2A/115 V.0.7A/ 230 V								
	Efficiency	72%/115VAC								
	Inrush Current	Cold start 20A/115V40A/230V								
Protection	Leakage Current	<3.5mA/240VAC								
	Over Load	105%~150% /115VAC								
	Over Voltage	5V:115%~135% Protection type: hiccup mode, recovers automatically after fault ondition is removed								
Environment	Working Temp & Humidity	-10°C~+60°C, 20%~90 %RH								
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH								
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC								
Standards	Safety Standard	Design refer to CSA 950, (UL1950, IEC950, TUV EN60950)								
	EMC Standard	Design refer to EN55022(CLSPP22),EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024								
Others	Weight	0.44Kg								
	Packing	45pcs/18Kg/1.22CUFT								

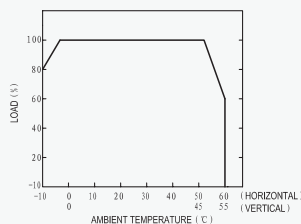
Outline and dimension



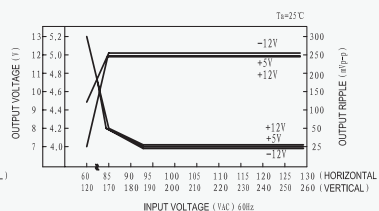
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -1	7	DC OUTPUT +1
2	AC/N	5	DC OUTPUT +2		
3	AC/G	6	DC OUTPUT -2		

Derating Curve



Static Characteristics(B)



50W Triple Output Switching Power Supply



GT-50...

Feature

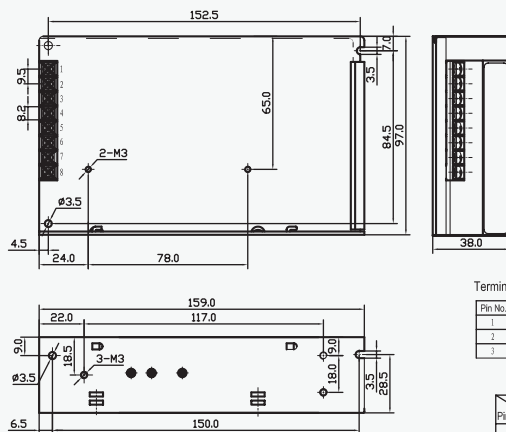
- High efficiency, high reliability, low cost
- AC input range selected by switch
- 100% full load burn-in test
- Protections: Short circuit/ Over load
- Cooling by free air convection
- Fixed switching frequency at 24KHz
- 1 year warranty
- Dimensions: 159*97*38mm(L*W*H)

Notes:

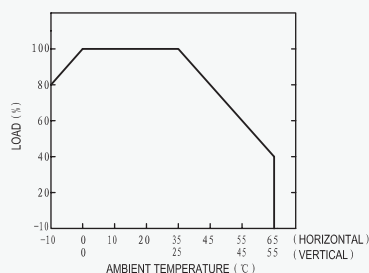
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair wire terminated with a 0.1μf & 47μf parallel capacitor.
- Tolerance: includes set up tolerance, line regulation and load regulation

Model		GT-50A			GT-50B			GT-50C			GT-50D		
		CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
Output	DC Voltage	5V	12V	-5V	5V	12V	-5V	5V	12V	-5V	5V	12V	-5V
	Voltage Tolerance	±2%	±5%	±5%	±2%	±5%	±5%	±2%	±5%	±5%	±2%	±5%	±5%
	Rated Current	7A	1A	1A	5A	1A	1A	4A	1A	1A	3A	1A	1A
	Current Range	0.6-7A	0.2-1A	0.2-1A	0.6-5A	0.2-1A	0.2-1A	0.6-4A	0.2-1A	0.2-1A	0.6-4A	0.2-.2A	0.2-1.2A
	Rated Power	52W			49W			50W			51W		
	Ripple & Noise	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV	100mV
	DC Voltage adi. Range	CH1: -5%, +10%											
	Setup,Rise,Hold Time	200ms,100ms,30ms at full load											
Input	Voltage Range	85~132 VAC/170~264VAC 47~63 Hz; selected by switch 40~370VDC											
	AC Current	0.8A/115 V0.45A/ 230 V											
	Efficiency	66%			69%			71%			72%		
	Inrush Current	Cold start 20A/115V 40A/230V											
	Leakage Current	<0.5mA/240VAC											
Protection	Over Load	105%~150%											
		Protection type: Shut down o/p voltage, recovers automatically after fault condition is removed.											
Environment	Working Temp & Humidity	-10°C~-+60°C; 20%~90 %RH											
	Storage Temp & Humidity	-20°C~-+85°C; 10%~95 %RH											
	Vibration	10~500Hz, 2G 10min./1 cycle, period for 60min, each along X, Y, Z axes											
Safety	Withstand Voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC											
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC											
Standards	Safety Standard	Design refer to UL1012											
Others	Weight	0.54Kg											
	Packing	30pcs/17Kg/0.86CUFT											

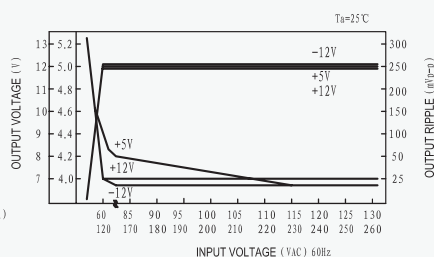
Outline and dimension



Derating Curve



Static Characteristics(B)



60W Triple Output Switching Power Supply



GT-60...

Feature

- High efficiency, high reliability
- Universal AC input /full range
- Protection:
Short circuit/ Over load /Over voltage
- Cooling by free air convection
- LED indicator for power on
- Fixed switching frequency at 50KHz
- 2 years warranty
- Dimensions: 159*97*38mm (L*W*H)

Notes:

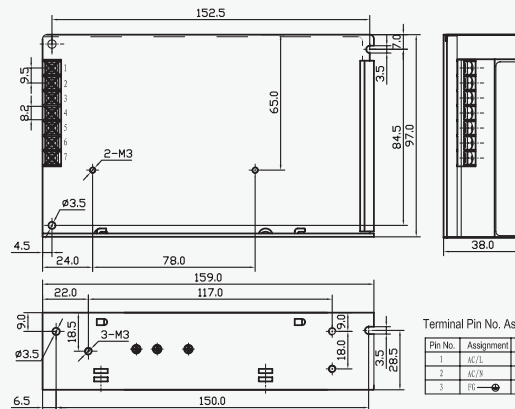
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

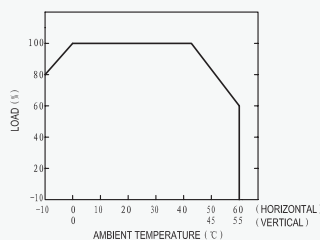
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GT-60A			GT-60B			GT-60C		
		CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
Output	DC Voltage	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V
	Voltage Tolerance	±2%	±6%	±6%	±2%	±6%	±6%	±2%	±6%	±6%
	Rated Current	5A	2.5A	0.5A	5A	2.5A	0.5A	5A	2.5A	0.5A
	Current Range	0.5-7A	0.2-3.5A	0.1-1A	0.5-7A	0.2-3.5A	0.1-1A	0.5-7A	0.2-3.5A	0.1-1A
	Rated Power	57.5W			61W			62.5W		
	Ripple & Noise	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
	DC Voltage adi.Range	CH1: -5%, +10%								
Input	Setup,Rise,Hold Time	300ms,50ms,10ms/230VAC 800ms, 50ms,10ms/115VAC at full load								
	Voltage Range	85~264 VAC 47-63Hz, 120~370VDC								
	AC Current	2A/115V 1A/ 230 V								
	Efficiency	72%								
	Inrush Current	Cold start 30A/115V60A/230V								
Protection	Leakage Current	<3.5mA/240VAC								
	Over Load	105%~150% Protection type: Shut down o/p voltage, recovers automatically after fault condition is removed								
	Over Voltage	5V: 115%~135% Protection type: Hiccup mode, recovers automatically after fault condition is removed								
Environment	Working Temp & Humidity	-10°C~+60°C, 20%~90 %RH								
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH								
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC								
Standards	Safety Standard	Design refer to UL1012,UL60950, TUVEN60950								
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024								
Others	Weight	0.55Kg								
	Packing	30pcs/17Kg/0.86CUFT								

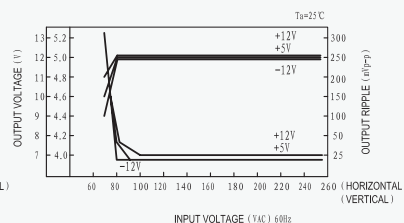
Outline and dimension



Derating Curve



Static Characteristics(B)



100W Triple Output Switching Power Supply



GT-100...

Feature

- High efficiency, high reliability
- Universal AC input /full range
- 100% full load burn-in test
- Protection:
Short circuit/ Over load
- Cooling by free air convection
- 2 years warranty
- Dimensions: 199*110*50mm (L*W*H)
- Triple output high precision voltage

Notes:

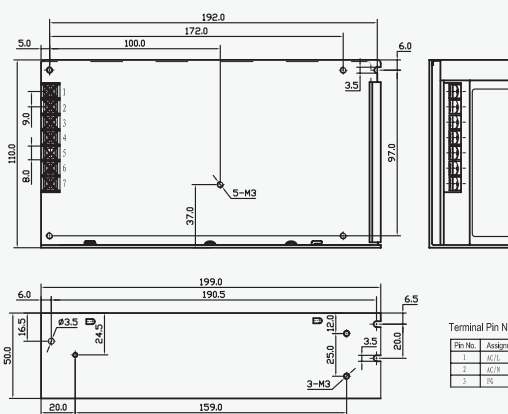
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GT-100C			GT-100D		
		CH1	CH2	CH3	CH1	CH2	CH3
Output	DC Voltage	5V	12V	-15V	5V	12V	24V
	Voltage Tolerance	±2%	±6%	±6%	±2%	±6%	±6%
	Rated Current	10A	2.5A	1A	6A	2A	2A
	Current Range	2-12A	0.2-2.5A	0.1-1A	2-12A	0.1-2A	0.2-2A
	Rated Power	100W			102W		
	Ripple & Noise	80mVp-p	150mVp-p	150mVp-p	80mVp-p	150mVp-p	150mVp-p
	DC Voltage adi.Range	CH1: -5%, +10%					
	Setup,Rise,Hold Time	200ms,500ms,16ms					
Input	Voltage Range	85~132 VAC/170~264VAC 47~63 Hz, selected by switch 240~370VDC					
	AC Current	2.5A/115V1.25A/ 230V					
	Efficiency	77%			79%		
	Inrush Current	Cold start 30A/115V60A/230V					
	Leakage Current	<0.5mA/240VAC					
Protection	Over Load	105%~150%					
		Protection type: Shut down o/p voltage, re-power on to recover					
Environment	Working Temp & Humidity	-10°C~+50°C, 20%-90 %RH					
	Storage Temp & Humidity	-20°C~+85°C, 10%-95 %RH					
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes					
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC					
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 500VDC/100M					
Standards	Safety Standard	Design refer to UL1012					
	EMC Standard	Design refer to FCC PART15 J CONDUCTION CLASS B					
Others	Weight	0.83Kg					
	Packing	14pcs/13Kg/0.95CUFT					

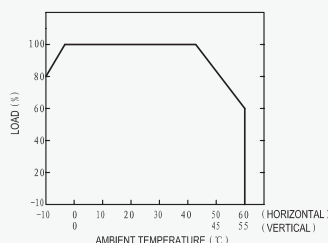
Outline and dimension



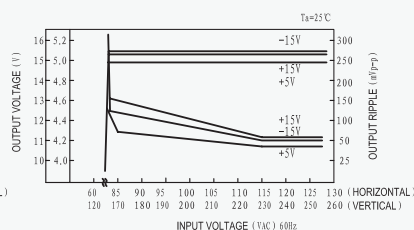
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -1	7	DC OUTPUT +1
2	AC/N	5	DC OUTPUT +12		
3	PE	6	DC OUTPUT GND		

Derating Curve



Static Characteristics(B)



60W Quad Output Switching Power Supply



GQ-60...

Feature

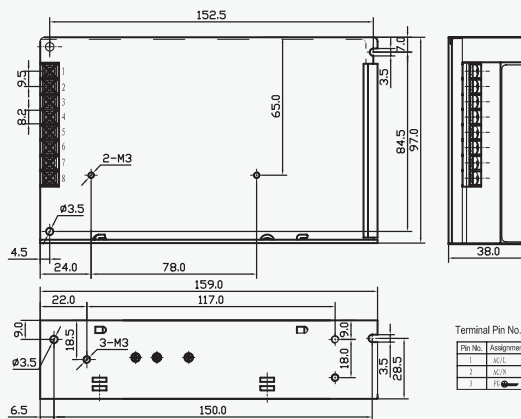
- High efficiency, high reliability
- Universal AC input /full range
- Protections:
Short circuit/ Over load/ Over voltage
- Cooling by free air convection
- LED indicator for power on
- Fixed switching frequency at 35KHz
- 2 years warranty
- Dimensions: 159*97*38mm (L*W*H)

Notes:

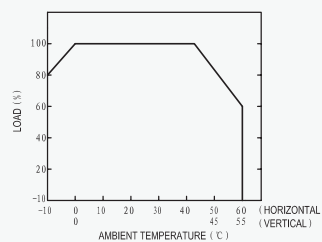
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GQ-60B				GQ-60C				GQ-60D			
		CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH3	CH1	CH2	CH3	CH3
Output	DC Voltage	5V	12V	-5V	-12V	5V	15V	-5V	-15V	5V	12V	24V	-12V
	Voltage Tolerance	±2%	±6%	±5%	±5%	±2%	+8 -4 %	±5%	±5%	±2%	±6%	+8 -4 %	±5%
	Rated Current	5.5A	2A	0.5A	0.5A	5.5A	1.5A	0.5A	0.5A	4A	1A	1A	0.5A
	Current Range	0.5-8A	0.1-3A	0.1-1A	0.1-1A	0.5-8A	0.1-3A	0.1-1A	0.1-1A	0.5-8A	0.1-3A	0.1-1A	0.1-1A
	Rated Power	57.5W				61W				62.5W			
	Ripple & Noise	100mV	120mV	100mV	120mV	100mV	120mV	100mV	120mV	100mV	120mV	100mV	120mV
	DC Voltage adi.Range	CH1: -5%, +10%											
Setup,Rise,Hold Time	1600ms,20ms,12ms/115VAC800ms,20ms, 60ms/230VAC at full load												
Input	Voltage Range	85~264 VAC 47~63Hz, 120~370VDC											
	AC Current	2A/115V 0.8A/ 230 V											
	Efficiency	70%				72%				75%			
	Inrush Current	Cold start 18A/115V36A/230V											
	Leakage Current	<1 mA/240VAC											
Protection	Over Load	105%~150% /115VAC											
		Protection type: Shut down o/p voltage, recovers automatically after fault condition is removed											
	Over Voltage	5V: 115%~135%											
		Protection type: Hiccup mode, recovers automatically after fault condition is removed											
Environment	Working Temp & Humidity	-10°C~-+60°C, 20%~90 %RH											
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH											
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes											
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC											
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC											
Standards	Safety Standard	Design refer to UL60950											
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3, EN61000-4-2,3,4,5,6,8,11; ENV50204											
Others	Weight	0.56Kg											
	Packing	30pcs/17Kg/0.86CUFT											

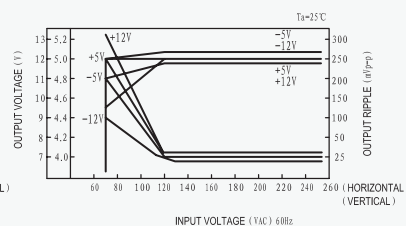
Outline and dimension



Derating Curve



Static Characteristics



120W Quad Output Switching Power Supply



GQ-120...

Feature

- High efficiency, high reliability
- AC input range selected by switch
- 100% full load burn-in test
- Protections:
Short circuit/ Over load/ Over voltage
- Fixed switching frequency at 25KHz
- 2 years warranty
- Dimensions: 199*110*50mm (L*W*H)

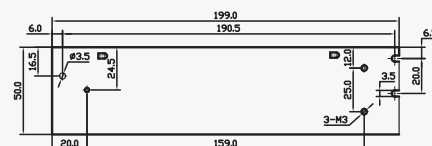
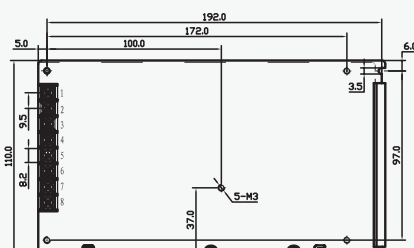
Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GQ-120B				GQ-120C				GQ-120D			
		CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH3	CH1	CH2	CH3	CH3
Output	DC Voltage	5V	12V	-5V	-12V	5V	15V	-5V	-15V	5V	12V	24V	-12V
	Voltage Tolerance	±2%	±6%	±6%	±6%	±2%	+10 -5%	±6%	+10 -5%	±2%	±6%	±6%	±6%
	Rated Current	11A	4A	1A	1A	10A	3.5A	1A	1A	8A	2A	2A	1A
	Current Range	2-12A	0.5-5A	0.2-1A	0.2-1A	2-12A	0.5-5A	0.2-1A	0.2-1A	2-12A	0.5-5A	0.2-1A	0.2-1A
	Rated Power	120W				122.5W				124W			
	Ripple & Noise	80mV	120mV	80mV	120mV	80mV	120mV	80mV	120mV	80mV	120mV	80mV	120mV
	DC Voltage adi.Range	CH1: -5%, +10%											
Setup,Rise,Hold Time	200ms, 50ms, 20ms at full load												
Input	Voltage Range	88~132VAC/176~264 VAC 47-63Hz; selected by switch 240~370VDC											
	AC Current	2.8A/115V 1.6A/ 230 V											
	Efficiency	77%				76%				78%			
	Inrush Current	Cold start 35A											
	Leakage Current	<3.5mA/240VAC											
Protection	Over Load	105%~135%											
		Protection type: Shut down o/p voltage, re-power on to recover											
	Over Voltage	CH1:115%~135%											
		Protection type: Shut down o/p voltage, re-power on to recover											
Environment	Working Temp & Humidity	-10°C~+60°C, 20%~90 %RH											
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH											
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes											
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC											
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC											
Standards	Safety Standard	Design refer to 1950,TUV EN60950											
	EMC Standard	Design reefer to EN55022(CISPR22),EN61000-3-2,-3, EN55024,EN61000-4-2,3,4,5,6,8,11; ENV50204											
Others	Weight	0.86Kg											
	Packing	14pcs/13Kg/0.95CUFT											

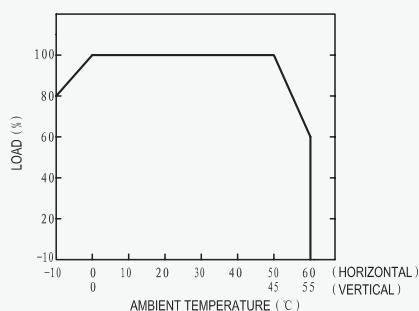
Outline and dimension



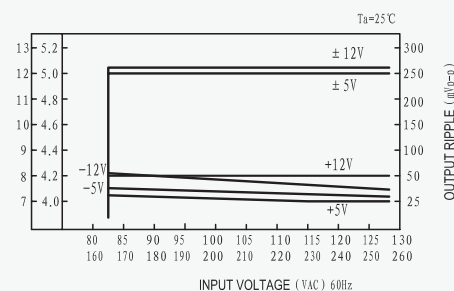
Terminal Pin No. Assignment:

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	DC IN	4	DC OUTPUT +12V	8	DC OUTPUT +12V	11	DC OUTPUT -12V
2	DC IN	5	DC OUTPUT -5V	9	DC OUTPUT -5V	12	DC OUTPUT -12V
3	DC IN	6	DC OUTPUT +5V	10	DC OUTPUT +5V	13	DC OUTPUT -5V

Derating Curve



Static Characteristics



180W Quad Output Switching Power Supply



GQ-180...

Feature

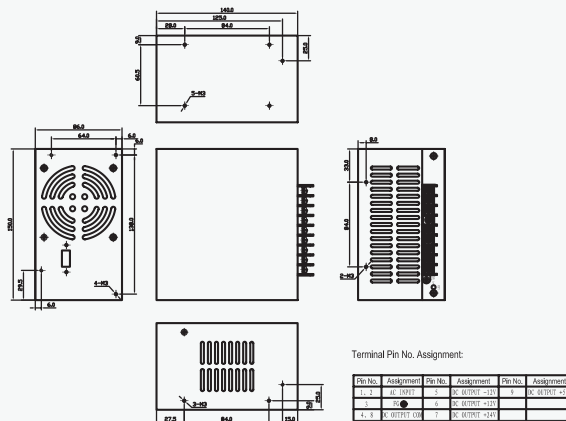
- High efficiency, high reliability
- Universal AC input/ full range
- 100% full load burn-in test
- Protections:
Short circuit/ Over load
- Cooling by free air convection
- 1 years warranty
- Dimensions: 150*140*86mm (L*W*H)

Notes:

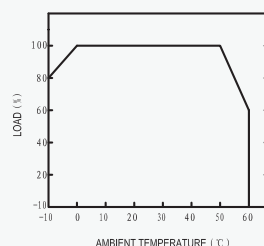
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GQ-180			
		CH1	CH2	CH3	CH4
Output	DC Voltage	5V	12V	24V	-12V
	Voltage Tolerance	±2%	±6%	±5%	±8%
	Rated Current	8A	2A	4A	1A
	Current Range	1-10A	0.2-2A	0.5-5A	0.1-1A
	Rated Power	172W			
	Ripple & Noise	80mVp-p	150mVp-p	200mVp-p	180mVp-p
	DC Voltage adj.Range	CH1: -5%, +10%			
	Setup,Rise,Hold Time	200ms, 50ms, 20ms at full load			
Input	Voltage Range	88-132VAC/176-264 VAC 47-63Hz; selected by switch 248-370VDC			
	AC Current	4A/115 V 2A/230 V			
	Efficiency	80%			
	Inrush Current	Cold start 30A/115V 60A/230V			
	Leakage Current	<0.5mA/240VAC			
Protection	Over Load	105%~135%			
		Protection type: Shut down o/p voltage, re-power on to recover			
Environment	Working Temp & Humidity	-10°C~+50°C, 20%~90 %RH			
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH			
	Vibration	10-500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M /500VDC			
Standards	Safety Standard	Design refer to 1950,TUV EN60950			
	EMC Standard	Design reefer to EN55022(CISPR22),EN61000-3-2,-3, EN55024,EN61000-4-2,3,4,5,6,8,11; ENV50204			
Others	Weight	1.28Kg			
	Packing	8pcs/11.24Kg/0.95CUFT			

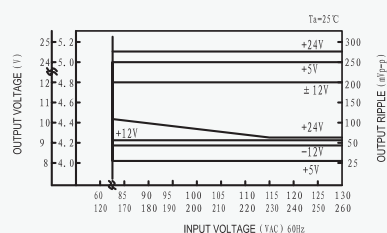
Outline and dimension



Derating Curve



Static Characteristics



75W Single Output With PFC Function



GSP-75...

Features:

- Universal AC input/Full range
- Built-in active PFC function, PF>0.93
- 100% full load burn-in test
- Protections: Short circuit/Over load/Over voltage
- Built-in constant current limiting circuit
- LED indicator for power on
- Fixed switching frequency at PFC: 67KHz, PWM: 134KHz
- 3 years warranty
- Dimension: 179*99*33mm (L*W*H)

Notes:

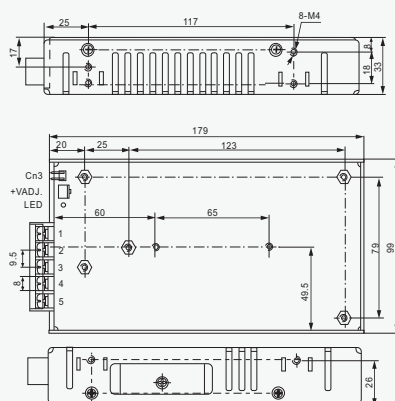
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GSP-75 -3.3	GSP-75 -5	GSP-75 -7.5	GSP-75 -12	GSP-75 -13.5	GSP-75 -15	GSP-75 -24	GSP-75 -27	GSP-75 -48
Output	DC Voltage	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±2%	±2%	±2%	±2%	±1%	±1%	±1%
	Rated Current	15A	15A	10A	6.3A	5.6A	5A	3.2A	2.8A	1.6A
	Current Range	0-15A	0-15A	0-10A	0-6.3A	0-5.6A	0-5A	0-3.2A	0-2.8A	0-1.6A
	Rated Power	49.5W	75W	75W	75.6W	75.6W	75W	76.8W	75.6W	76.8W
	Ripple & Noise	80mVp-p						100mVp-p		
	DC Voltage adi.Range	-5%,+10%								
Setup,Rise,Hold Time	600ms,60ms,20ms at full load									
Input	Voltage Range	85~264 VAC,47-63Hz;120~370VDC								
	Power Factor	PF>0.93/230VAC, PF>0.96/115VAC at full load								
	AC Current	1.3A/115 VAC 0.7A/230VAC								
	Efficiency	68%	72%	74%	77%	78%	79%	80%	80%	80%
	Inrush Current	Cold start 40A/230VAC								
	Leakage Current	<2mA/240VAC								
Protection	Over Load	105%~150%								
		Protection type: Constant current limiting, recovers automatically after fault conditionis removed								
	Over Voltage	115%~135%								
Protection type: Shut down o/p voltage, re-power on to recover										
Function	Remote Control	CN3:4 ~ 10VDC POWER OFF , <0 ~ 0.8VDC POWER ON								
Environment	Working Temp & Humidity	-10℃+60℃;20%-90 %RH								
	Storage Temp & Humidity	-20℃+85℃; 10%-95 %RH								
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC								
Standards	Safety Standard	Design refer to UL1950,TUV EN60950								
	EMC Standard	EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024								
Others	Weight	0.58Kg								
	Packing	20pcs/12.0Kg/0.64CUFT								

Outline and dimension



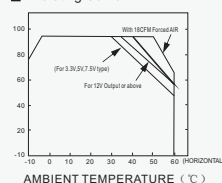
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	DC OUTPUT +V	3	FG
2	DC OUTPUT -V	4, 5	AC INPUT

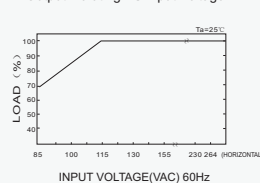
Remote ON/OFF (CN3): Molex 5046-02 or equivalent

Pin No.	Assignment	Mating Connector	Terminal
1	RC-	Molex 5051 or equivalent	Molex 2759 or equivalent
2	RC+		

Derating Curve



Output Derating VS Input Voltage



150W Single Output With PFC Function



GSP-150...

Features:

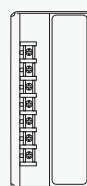
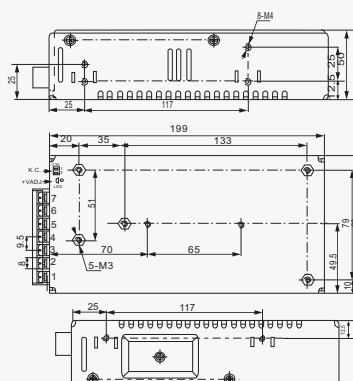
- Universal AC input/ full range
- Built-in active PFC function, PF>0.93
- 100% full load burn-in test
- Protections: Short circuit/ Over load / Over voltage/ Over temperature
- Built- in constant current limiting circuit
- LED indicator for power on
- Remote ON-OFF control (Optional)
- Fixed switching frequency at PF: 67KHz PWM: 134KHz
- 3 years warranty
- Dimensions:199*99*50mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GSP-150 -3.3	GSP-150 -5	GSP-150 -7.5	GSP-150 -12	GSP-150 -13.5	GSP-150 -15	GSP-150 -24	GSP-150 -27	GSP-150 -48
Output	DC Voltage	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±2%	±2%	±2%	±2%	±1%	±1%	±1%
	Rated Current	30A	30A	20A	12.5A	11.2A	10A	6.3A	5.6A	3.2A
	Current Range	0-30A	0-30A	0-20A	0-12.5A	0-11.2A	0-10A	0-6.3A	0-5.6A	0-3.2A
	Rated Power	99W	150W	150W	150W	151.2W	150W	150W	151.2W	153.6W
	Ripple & Noise	100mVp-p						100mVp-p		250mVp-p
	DC Voltage adi.Range	-5%,+10%								
Setup,Rise,Hold Time	600ms,30ms,20ms at full load									
Input	Voltage Range	85~264 VAC,47-63Hz;120~370VDC								
	Power Factor	PF>0.93/230VAC, PF>0.98/115VAC at full load								
	AC Current	2.5A/115 VAC 1.2A/230VAC								
	Efficiency	67%	75%	79%	80%	80%	81%	83%	84%	84%
	Inrush Current	Cold start 40A/230VAC								
	Leakage Current	<2mA/240VAC								
Protection	Over Load	105%~150%								
		Protection type: Constant current limiting, recovers automatically after fault condition is recover								
	Over Voltage	115%~135%								
		Protection type: Shut down o/p, re-power on to recover								
Over Temperature	TSW1(Power transistor)When temp.in 95±5℃, shutdown o/p voltage temp. <95±5℃,O/lauto-recovery.									
Function	Remote Control	CN1:4 ~ 10VDC POWER ON, <0 ~ 0.8VDC POWER OFF								
Environment	Working Temp & Humidity	-10℃+60℃;20%~90 %RH								
	Storage Temp & Humidity	-20℃+85℃; 10%~95 %RH								
	Vibration	10~500Hz,2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC								
Standards	Safety Standard	Design refer to UL1950,TUV EN60950								
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024								
Others	Weight	0.75Kg								
	Packing	20pcs/15Kg/1.28CUFT								

Outline and dimension



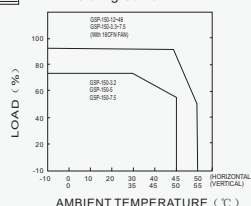
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4, 5	DC OUTPUT -V
2	AC/N	6, 7	DC OUTPUT +V
3	FG		

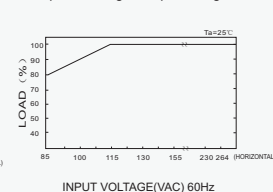
Remote ON/OFF(CN1):JST S2B-XH or equivalent

Pin No.	Assignment	Mating Connector	Terminal
1	RC+	JST XHP	JST SXH-001T-P0.6
2	RC-	or equivalent	or equivalent

Derating Curve



Output Derating VS Input Voltage



200W Single Output With PFC Function



GSP-200 ...

Features:

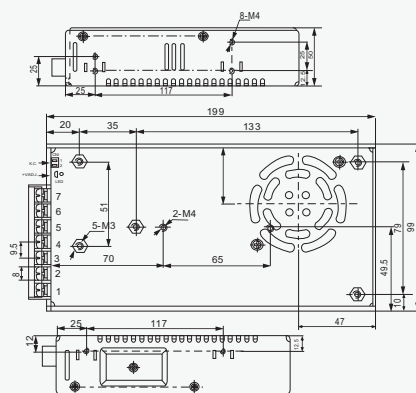
- Universal AC input/ full range
- 100% full load burn-in test
- Built-in active PFC function, PF>0.93
- Protection type: Short circuit/ Over load/ Over voltage/ Over temperature
- Built-in constant current limiting circuit
- LED indicator for power on
- Remote ON-OFF control (Optional)
- Fixed switching frequency at PFC: 67KHz PWM at: 134KHz
- Built-in fan speed control
- 3 years warranty
- Dimensions: 199*99*50mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GSP-200 -3.3	GSP-200 -5	GSP-200 -7.5	GSP-200 -12	GSP-200 -13.5	GSP-200 -15	GSP-200 -24	GSP-200 -27	GSP-200 -48	
Output	DC Voltage	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V	
	Voltage Tolerance	±2%	±2%	±2%	±2%	±2%	±2%	±1%	±1%	±1%	
	Rated Current	40A	40A	26.7A	16.7A	14.9A	13.4A	8.4A	7.5A	4.2A	
	Current Range	0-40A	0-40A	0-26.7A	0-16.7A	0-14.9A	0-13.4A	0-8.4A	0-7.5A	0-4.2A	
	Rated Power	132W	200W	200.2W	200.4W	201.1W	201W	201.6W	202.5W	201.6W	
	Ripple & Noise	100mVp-p						150mVp-p		250mVp-p	
	DC Voltage adi.Range	-5%,+10%									
	Setup,Rise,Hold Time	600ms,30ms,20ms at full load									
Input	Voltage Range	85~264 VAC 47-63Hz;120~370VDC									
	Power Factor	PF>0.93/230VAC, PF>0.98/115VAC at full load									
	AC Current	3.5A/115 VAC 1.7A/230VAC									
	Efficiency	65%	71%	76%	79%	80%	81%	83%	83%	84%	
	Inrush Current	Cold start 40A/230VAC									
	Leakage Current	<2mA/240VAC									
Protection	Over Load	105%~150%									
		Protection type: Constant current limiting, recovers automatically after fault condition is removed									
	Over Voltage	115%~135%									
		Protection type: Shut down o/p voltage, re-power on to recover									
Over Temperature	TSW1(power transistor)When temp. in 95±5℃, shut down o/p voltage, temp.<95±5℃ ,O/lauto-recovery.										
Function	Remote Control	CN1:4 ~ 10VDC POWER ON, <0 ~ 0.8VDC POWER OFF									
Environment	Working Temp & Humidity	-10℃+60℃;20%~90 %RH									
	Storage Temp & Humidity	-20℃+85℃; 10%-95 %RH									
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes									
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC									
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC									
Standards	Safety Standard	Design refer to UL1950,TUV EN60950									
	EMC Standard	Designrefer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024									
Others	Weight	0.8Kg									
	Packing	20pcs/16Kg/1.28CUFT									

Outline and dimension



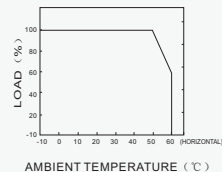
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -V
2	AC/N	6	DC OUTPUT +V
3	FG		

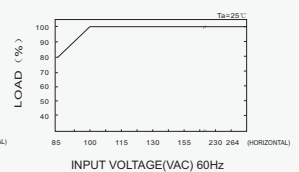
Remote ON/OFF(CN1):JST S2B-XH or equivalent

Pin No.	Assignment	Mating Connector	Terminal
1	RC+	JST XHP or equivalent	JST SXH-O0IT-P0.6 or equivalent
2	RC-		

Derating Curve



Output Derating VS Input Voltage



300W Single Output With PFC Function



GSP-300...

Features:

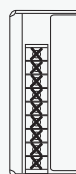
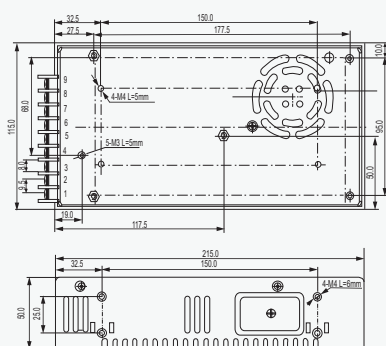
- Universal AC input/ full range
- Built-in active PFC function, PF>0.95
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Forced air cooling by built-in DC fan
- Built-in fan speed control
- Fixed switching frequency at 100KHz
- 3 years warranty
- Dimensions: 215*115*50mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GSP-300-5	GSP-300-7.5	GSP-300-12	GSP-300-13.5	GSP-300-15	GSP-300-24	GSP-300-27	GSP-300-48
Output	DC Voltage	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	50A	34A	24A	21A	19A	12.5A	11A	6.25A
	Current Range	0-50A	0-34A	0-24A	0-21A	0-19A	0-12.5A	0-11A	0-6.25A
	Rated Power	250W	255W	288W	285W	285W	300W	297W	300W
	Ripple & Noise	150mVp-p						200mVp-p	240mVp-p
	DC Voltage adi.Range	4.5-5.7V	6-9V	10-13.2V	12-15V	13.5-18V	20-26.4V	26-32V	41-56V
Input	Setup,Rise,Hold Time	800ms,50ms,16ms/230VAC 2500ms,50ms,16ms/115VAC at full load							
	Voltage Range	88~264VAC 120~370VDC frequency: 47-63 Hz							
	Power Factor	PF>0.95/230VAC, PF>0.98/115VAC at full load							
	AC Current	4A/115 VAC 2A/230VAC							
	Efficiency	75%	80%	83%	83%	83%	85%	86%	85%
	Inrush Current	18A/115VAC 36A/230VAC							
Protection	Leakage Current	<2 mA/240VAC							
	Over Load	105%~135% Protection type: 105%~135% constant current >135%, shut down o/p voltage, recovers automatically after fault condition is removed							
	Over Voltage	115%~135% 5.75-6.75 9.4-10.9 13.8-16.2 15.5-18.2 18-21 27.6-32.4 33.7-39.2 57.6-67.2 Protection type: Shut down o/p voltage, re-power on to recover							
	Over Temperature	TSW1(Power transistor)When Temp. in 80±5°C (70±5°C 5V , shut down o/p voltage, Temp.<65±5°C (55°C±5V) , O/I auto-recovery.							
Environment	Working Temp & Humidity	-20°C+65°C;20%~90 %RH							
	Storage Temp & Humidity	-40°C+85°C; 10%~95 %RH							
	Vibration	10 500Hz 2G 10min./1cycle, period for 60min, each along X, Y, Z axes							
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC							
Standards	Safety Standard	Design refer to UL60950,TUV EN60950							
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024							
Others	Weight	1.1Kg							
	Packing	12pcs/14.0Kg/0.98CUFT							

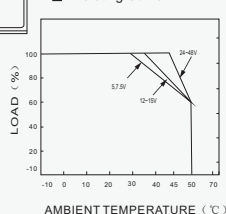
Outline and dimension



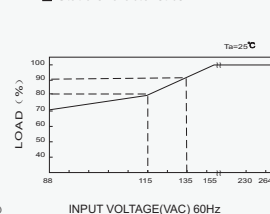
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4, 5, 6	DC OUTPUT -V
2	AC/N	7, 8, 9	DC OUTPUT +V
3	FG		

Derating Curve



Static Characteristics



320W Single Output With PFC Function



GSP-320...

Features:

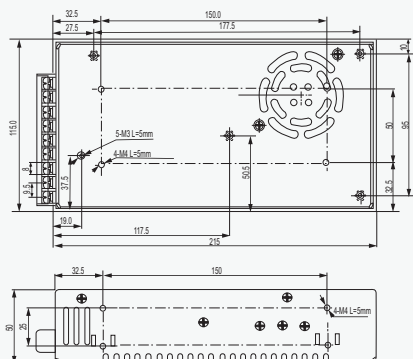
- Universal AC input/ full range
- Built-in active PFC function, PF>0.95
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Forced air cooling by built-in DC fan
- Built-in fan speed control
- Fixed switching frequency at 100KHz
- 3 years warranty
- Dimensions: 215*115*50mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ & 47 μ f parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GSP-320 -5	GSP-320 -7.5	GSP-320 -12	GSP-320 -13.5	GSP-320 -15	GSP-320 -24	GSP-320 -27	GSP-320 -48
Output	DC Voltage	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±2%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	55A	40A	25A	22A	20A	13A	11.7A	6.7A
	Current Range	0-55A	0-40A	0-25A	0-22A	0-20A	0-13A	0-11.7A	0-6.7A
	Rated Power	275W	300W	300W	297W	300W	312W	315.9W	321.6W
	Ripple & Noise	150mVp-p						200mVp-p	240mVp-p
	DC Voltage adi.Range	± 10%	± 20%	-16%,+10%	± 11%	-10%,+20%	16%,+10%	-4%,+18%	-15%,+17%
	Setup,Rise,Hold Time	800ms,50ms,16ms/230VAC 2500ms,50ms,16ms/115VAC at full load							
Input	Voltage Range	88-264VAC selected by 47-63 Hz;120-370VDC							
	Power Factor	PF>0.95/230VAC, PF>0.98/115VAC at full load							
	AC Current	5A/115 VAC 2.5A/230VAC							
	Efficiency	79%	83%	86%	86%	86%	87%	88%	89%
	Inrush Current	22A/115VAC 40A/230VAC							
	Leakage Current	<1 mA/240VAC							
Protection	Over Load	105%~135%							
		Protection type: Fold back current limiting, recovers automatically after fault condition is removed							
	Over Voltage	115%~135%							
		5.75-6.75	9.4-10.9	13.8-16.2	15.5-18.2	18-21	27.6-32.4	33.7-39.2	57.6-67.2
		Protection type: Shut down o/p voltage, re-power on to recover							
Over Temperature	TSW1(Power transistor) When temp. in 80±5℃ (70℃±5℃ 5V), shut downo/p voltage, temp. <80±5 (70℃±5℃ 5V), O/I auto-recovery								
Environment	Working Temp & Humidity	-10℃+50℃;20%~90 %RH							
	Storage Temp & Humidity	-20℃+85℃; 10%~95 %RH							
	Vibration	10~500Hz,2G 10min./1cycle, period for 60min, each along X, Y, Z axes							
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC							
Standards	Safety Standard	Design refer to UL60950,TUV EN60950							
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024							
Others	Weight	1.1Kg							
	Packing	12pcs/14.0Kg/0.98CUFT							

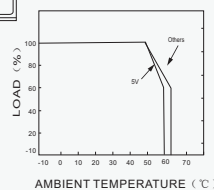
Outline and dimension



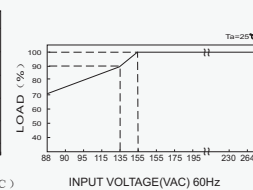
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4, 5, 6	DC OUTPUT -V
2	AC/N	7, 8, 9	DC OUTPUT +V
3	FG		

- Derating Curve



■ Static Characteristics(5V)



500W Single Output With PFC Function



GSP-500...

Features:

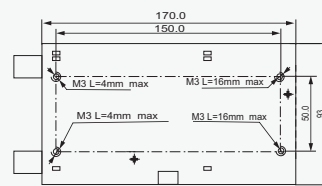
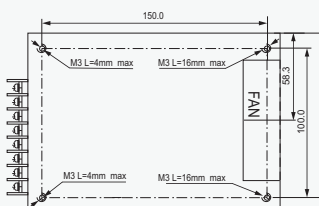
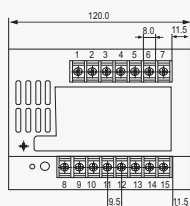
- High efficiency, high reliability
- Universal AC input/ full range
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage
- Forced air cooling by built in DC fan
- Built-in cooling Fan ON-OFF control
- Fixed switching frequency at 110KHz
- Built-in active PFC function, remote ON-OFF control, remote sense function
- 3 years warranty
- Dimensions: 170*120*93mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GSP-500 -12	GSP-500 -13.5	GSP-500 -15	GSP-500 -24	GSP-500 -27	GSP-500 -48
Output	DC Voltage	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	40A	36A	32A	20A	18A	10A
	Current Range	0-40A	0-36A	0-32A	0-20A	0-18A	0-10A
	Rated Power	480W	486W	480W	480W	486W	480W
	Ripple & Noise	240mVp-p				200mVp-p	300mVp-p
	DC Voltage adi.Range	-16%,+10%	-12%,+15%	-10%,+20%	-16%,+10%	-12%,+11%	-15%,+16%
Input	Setup,Rise,Hold Time	1.5s,50ms,20ms at full load					
	Voltage Range	88~264 VAC 47~63 Hz;124~370VDC					
	Power Factor	PF>0.95/230VAC PF>0.95/115VAC at full load					
	AC Current	7A/115 V 3.5A/ 230 V					
	Efficiency	84%	84%	83%	85.5%	86.5%	87%
	Inrush Current	18A/115V 36A/230V					
Protection	Leakage Current	<3.5mA/240VAC					
	Over Load	105%~135% Protection type: Fold back current limiting, recovers automatically after fault condition is removed.					
	Over Voltage	115%~135% Protection type: hiccup mode, recovers automatically after fault condition is removed.					
	FAN Control O.T.P	RTH1 OR RTH2≤50°C FAN ON, 45°C FAN OFF, ≥70°C output shutdown					
Environment	Working Temp & Humidity	-10°C~+50°C;20%~90 %RH					
	Storage Temp & Humidity	-20°C~+85°C; 10%~95 %RH					
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes					
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC					
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC					
Standards	Safety Standard	Design refer to UL1950,TUV EN60950					
	EMC Standard	Design refer to EN55022, EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204					
Others	Weight	1.9Kg					
	Packing	8pcs/15.2kg/1.06CUFT					

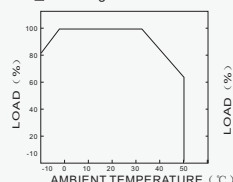
Outline and dimension



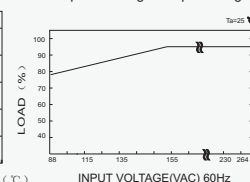
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4-5	NC	8	-S
2	AC/N	6	R C G	9-11	DC OUTPUT +V
3	FG	7	R C	12-14	DC OUTPUT -V

Derating Curve



Output Derating VS Input Voltage



500W Single Output With PFC Function



GSP-501...

Features:

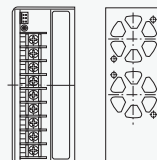
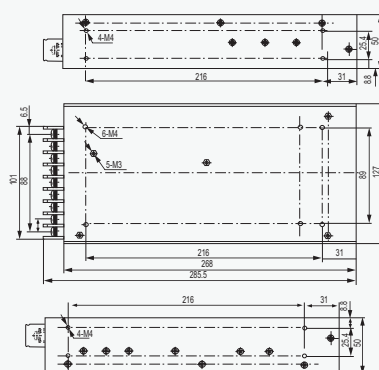
- High efficiency, high reliability
- Universal AC input/ full range
- Built-in active PFC function, PF>0.93/230VAC
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Built-in remote ON-OFF control and remote sense function
- Forced air cooling by built-in DC fan
- 3 years warranty
- Dimensions: 268*127*50mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GSP-501-5	GSP-501-12	GSP-501-13.5	GSP-501-15	GSP-501-24	GSP-501-27	GSP-501-48
Output	DC Voltage	5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±1.5%	±1.5%	±1.5%	±1%	±1%	±1%
	Rated Current	85A	42A	37A	34A	21A	18.4A	11A
	Current Range	0-85A	0-42A	0-37A	0-34A	0-21A	0-18.4A	0-11A
	Rated Power	425W	504W	499.5W	510W	504W	499.5W	528W
	Ripple & Noise	120mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p	250mVp-p
	DC Voltage adi.Range	±10%	±10%	±10%	±10%	±10%	±10%	±10%
Input	Setup,Rise,Hold Time	1000ms,80ms,20ms at full load						
	Voltage Range	90~264VAC (5V:85~264VAC) 47~63 Hz,selected by switch 120~370VDC						
	Power Factor	PF>0.93/230VAC						
	AC Current	7A/115 VAC 3.5A/230VAC						
	Efficiency	78%	84%	84%	84%	85%	85%	86%
	Inrush Current	Cold start 40A /230VAC						
Protection	Leakage Current	<1.5mA/ 264VAC/60Hz						
	Over Load	110%~130%						
	Over Voltage	110%~130%						
	Over Temperature	When TSW1≥80°C, TSW2≥90°C						
Environment	Working Temp & Humidity	-10°C+50°C;20%~90 %RH						
	Storage Temp & Humidity	-20°C+85°C; 10%~95 %RH						
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, X, Y, Z axes						
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC						
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC						
Standards	Safety Standard	UL60950-1, EN60950-1						
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204 EN61000-6-2						
Others	Weight	1.7Kg						
	Packing	6pcs/11.3g/0.67CUFT						

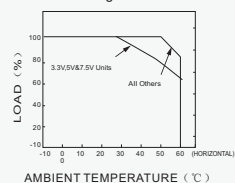
Outline and dimension



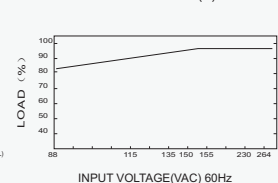
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4-6	DC OUTPUT -V
2	AC/N	7-9	DC OUTPUT +V
3	FG		

Derating Curve



Static Characteristics(A)



600W Single Output with Parallel Function (HGCN-600)



HGCN-600...

Feature

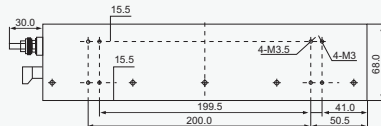
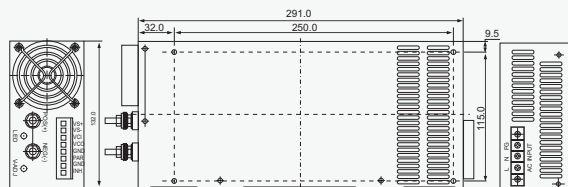
- High efficiency, high reliability
- Universal AC input/ full range
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Built-in ON-OFF control and remote sense function
- With parallel function
- Can adjust from 20%~100% output voltage by external control 1-5V
- Focred air cooling by built-in DC fan
- 2 years warranty
- Dimensions: 291*132*68mm (L*W*H)

Notes:

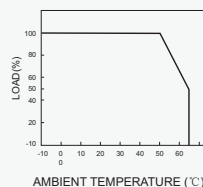
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HGCN-600-05	HGCN-600-12	HGCN-600-15	HGCN-600-18	HGCN-600-24	HGCN-600-48
Output	DC Voltage	5V	12V	15V	18V	24V	48V
	Voltage Tolerance	±1.5%	±1%	±1%	±1%	±1%	±1%
	Rated Current	100A	50A	40A	33A	25A	12A
	Current Range	0-100A	0-50A	0-15A	0-18A	0-24A	0-48A
	Rated Power	500W	600W	600W	600W	600W	600W
	Ripple & Noise	100mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p	480mVp-p
	DC Voltage adi.Range	Can adjust from 20%~100% output voltage by external control 1-5V					
	Setup,Rise,Hold Time	800ms, 50ms, 16ms at full load					
Input	Voltage Range	90~130VAC/180~260 VAC 47-63Hz; selected by switch 260~370VDC					
	AC Current	11A/115 V 7.0A/ 230 V					
	Efficiency	77%	80%	81%	82%	85%	87%
	Inrush Current	60A/230V					
	Leakage Current	3.5 mA/240VAC					
Protection	Over Load	101%~115%	110%~135%				
		Protection type: Current limiting, delay shut down o/p voltage, re-power on to recover					
Environment	Working Temp & Humidity	-10°C~-+65°C, 20%~90 %RH					
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH					
	Vibration	10~200Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes					
Safety	Withstand Voltage	I/P-O/P, I/P-FG:1500VAC					
	Isolation Resistance	I/P-O/P, I/P-FG, 100M Ohms / 500VDC					
Standards	Safety Standard	Design refer to UL1950,CSA22.2,IEC60950					
	EMC Standard	Design refer to FCC Part 15 Class A					
Others	Weight	2.3Kg					
	Packing	8pcs/24.0kg/CARTON					

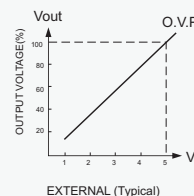
Outline and dimension



■ Derating curve



■ External DC control VS output voltage



800W Single Output with
Parallel Function
(HGCN-800)



HGCN-800...

Feature

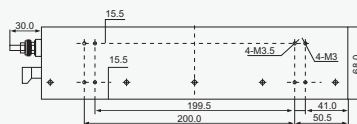
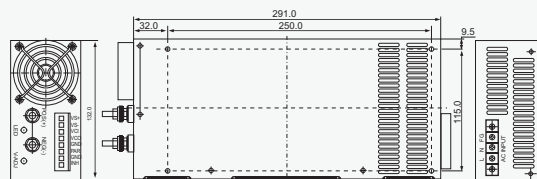
- High reliability, low ripple
- AC input range selected by switch
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Built-in remote ON-OFF control and remote sense function
- With parallel function
- Can adjust from 20%~100% output voltage by external control 1-5V
- Forced air cooling by built-in DC fan
- 2 years warranty
- Dimensions: 291*132*68mm (L*W*H)

Notes:

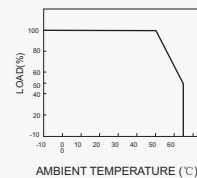
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HGCN-800-12	HGCN-800-15	HGCN-800-24	HGCN-800-48
Output	DC Voltage	12V	15V	24V	48V
	Voltage Tolerance	±1%	±1%	±1%	±1%
	Rated Current	66A	54A	33A	16.6A
	Current Range	0-66A	0-54A	0-33A	16.6A
	Rated Power	800W	800W	800W	800W
	Ripple & Noise	150mVp-p	150mVp-p	240mVp-p	480mVp-p
	DC Voltage adi.Range	Can adjust from 20%~100% output voltage by external control 1-5V			
Input	Setup,Rise,Hold Time	800ms, 50ms, 16ms at full load			
	Voltage Range	90~130VAC/180~260 VAC 47-63Hz; selected by switch 260~370VDC			
	AC Current	11A/115 V 7.0A/ 230 V			
	Efficiency	80%	81%	85%	87%
	Inrush Current	60A/230V			
Protection	Leakage Current	3.5 mA/240VAC			
	Over Load	110%~135% Protection type: Current limiting, delay shut down o/p voltage, re-power on to recover			
Environment	Working Temp & Humidity	-10°C~+65°C, 20%~90 %RH			
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH			
	Vibration	10~200Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P, I/P-FG:1500VAC			
	Isolation Resistance	I/P-O/P, I/P-FG, 100M Ohms / 500VDC			
Standards	Safety Standard	Design refer to UL1950,CSA22.2,IEC60950			
	EMC Standard	Design refer to FCC Part 15 Class A			
Others	Weight	2.3Kg			
	Packing	8pcs/24.0kg/CARTON			

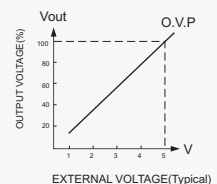
Outline and dimension



Derating curve



External DC control VS output voltage



1200W Single Output with Parallel Function (HGCN-1200)



HGCN-1200...

Feature

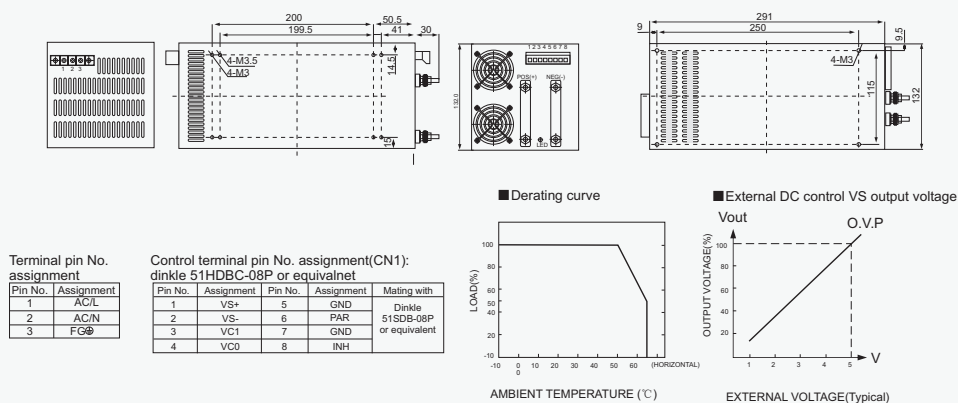
- High reliability, low ripple
- AC input range selected by switch
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Built-in remote ON-OFF control and remote sense function
- With parallel function
- Can adjust from 20%~100% output voltage by external control 1-5V
- Forced air cooling by built-in DC fan
- 2 years warranty
- Dimensions: 291*132*68mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HGCN-1K2-5	HGCN-1K2-12	HGCN-1K2-15	HGCN-1K2-24	HGCN-1K2-48
Output	DC Voltage	5V	12V	15V	24V	48V
	Voltage Tolerance	±2.5%	±1%	±1%	±1%	±1%
	Rated Current	180A	100A	80A	50A	24A
	Current Range	0-180A	0-100A	0-80A	0-50A	0-24A
	Rated Power	900W	1200W	1200W	1200W	1200W
	Ripple & Noise	100mVp-p	120mVp-p	150mVp-p	240mVp-p	480mVp-p
	DC Voltage adi.Range	Can adjust from 20%~100% output voltage by external control 1-5V				
	Setup,Rise,Hold Time	800ms, 50ms, 16ms at full load				
Input	Voltage Range	90~130VAC/180~260 VAC 47-63Hz; selected by switch 260~370VDC				
	AC Current	11A/115 V 7.0A/ 230 V				
	Efficiency	77%	83%	85%	85%	87%
	Inrush Current	120A/230V				
	Leakage Current	3.5 mA/240VAC				
Protection	Over Load	110%~135%				
		Protection type: Current limiting, delay shut down o/p voltage, re-power on to recover				
Environment	Working Temp & Humidity	-10°C~+65°C, 20%~90 %RH				
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH				
	Vibration	10~200Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes				
Safety	Withstand Voltage	I/P-O/P, I/P-FG:1500VAC				
	Isolation Resistance	I/P-O/P, I/P-FG, 100M Ohms / 500VDC				
Standards	Safety Standard	Design refer to UL1950,CSA22.2,IEC60950				
	EMC Standard	Design refer to FCC Part 15 Class A				
Others	Weight	4.5Kg				
	Packing	4pcs/20kg/CARTON				

Outline and dimension



1500W Single Output with
Parallel Function
(HGCN-1500)



HGCN-1500...

Feature

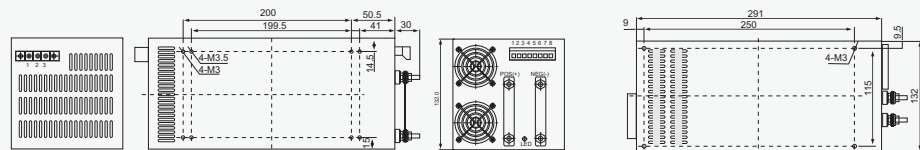
- High reliability, low ripple
- AC input voltage AC200~260V
- Protections : Short circuit/ Over load/ Over voltage/ Over temperature
- Built-in remote ON-OFF control and remote sense function
- With parallel function
- Can adjust from 20%~100% output voltage by external control 1-5V
- Forced air cooling by built-in DC fan
- 2 years warranty
- Dimensions: 291*132*132mm □L*W*H□

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HGCN-1K5-12	HGCN-1K5-15	HGCN-1K5-24	HGCN-1K5-48
Output	DC Voltage	12V	15V	24V	48V
	Voltage Tolerance	±1%	±1%	±1%	±1%
	Rated Current	125A	100A	62.5A	32A
	Current Range	0-125A	0-100A	0-62.5A	32A
	Rated Power	1500SW	1500W	1500W	1536W
	Ripple & Noise	120mVp-p	150mVp-p	240mVp-p	480mVp-p
	DC Voltage adi.Range	Can adjust from 20%~100% output voltage by external control 1-5V			
Input	Setup,Rise,Hold Time	800ms, 50ms, 16ms at full load			
	Voltage Range	200~260VAC 290~370 VDC; 47-63Hz			
	AC Current	12A/230 VAC			
	Efficiency	83%	84%	85%	87%
	Inrush Current	120A/230V			
Protection	Leakage Current	3.5 mA/240VAC			
	Over Load	110%~135%			
		Protection type: Shut down o/p voltage, re-power on to recover			
Environment		TSW1 Power transistor temp.>100 , shut down o/p voltage, re-power on to recover			
	Working Temp & Humidity	-10°C~+65°C, 20%~90 %RH			
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH			
Safety	Vibration	10~200Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
	Withstand Voltage	I/P-O/P, I/P-FG:1500VAC			
	Isolation Resistance	I/P-O/P, I/P-FG, >100M Ohms / 500VDC			
Standards	Safety Standard	Design refer to UL1950,CSA22.2,IEC60950			
	EMC Standard	Design refer to FCC Part 15 Class A			
Others	Weight	4.5Kg;			
	Packing	4pcs/20kg/CARTON			
	Special Function	DC voltage adj., Remote sensing, remote control, parallel operation (refer to terminal instructionmanual)			

Outline and dimension

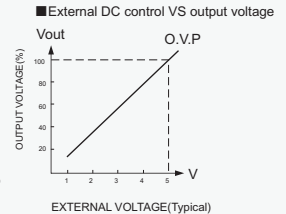
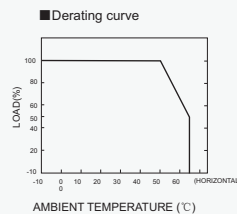


Terminal pin No. assignment

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG

Control terminal pin No. assignment(CN1):
dinkle 51HDBC-08P or equivalent

Pin No.	Assignment	Pin No.	Assignment	Mating with
1	VS+	5	GND	Dinkle 51SDS-08P or equivalent
2	VS-	6	PAR	
3	VC1	7	GND	
4	VC0	8	INH	



500W SMPS with PFC and Parallel Function (HPGP-500)



HPGP-500...

Feature

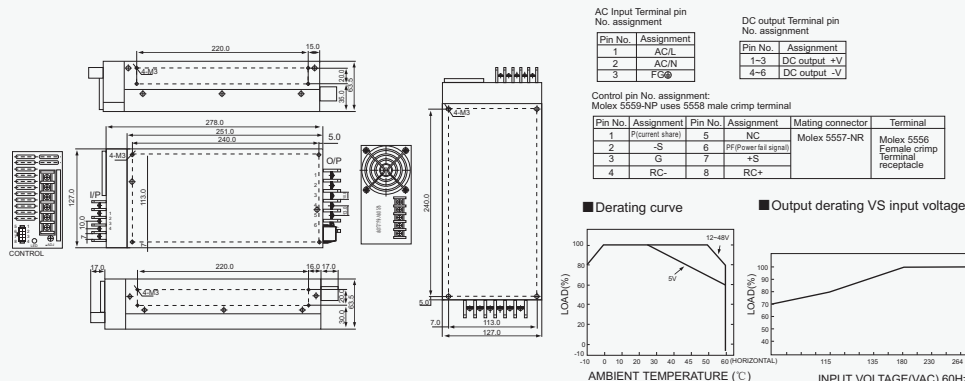
- High efficiency, high reliability
- Universal AC input/ full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Forced air cooling by built-in DC fan
- Current sharing up to 2000W(3+1)
- With power good and fail signal output
- Built-in remote ON-OFF control and remote sense function
- 3 years warranty
- Dimensions: 278*127*63.5mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HPGP-500-5	HPGP-500-12	HPGP-500-13.5	HPGP-500-15	HPGP-500-24	HPGP-500-27	HPGP-500-48
Output	DC Voltage	5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±2%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	80A	41.5A	37A	33A	20.8A	18.5A	10.5A
	Current Range	0-80A	0-41.5A	0-37A	0-33A	0-20.8A	0-18.5A	0-10.5A
	Rated Power	400W	498W	499.5W	495W	499.2W	499.5W	504W
	Ripple & Noise	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p
	DC Voltage adi.Range	-5%,+10%	-17%,+10%	± 11%	-10%,+20%	-17%,+20%	± 11%	-15%,+17%
	Setup,Rise,Hold Time	1500ms,50ms,15ms at full load						
Input	Voltage Range	90~264 VAC 47-63Hz;127~370VDC						
	Power Factor	0.95/230VAC 0.98/100VAC at full load						
	AC Current	7A/115 VAC 3.5A/230VAC						
	Efficiency	76%	82%	82%	82%	84%	84%	86%
	Inrush Current	Cold start 20A/115VAC 40A/230VAC						
	Leakage Current	<1mA/240VAC						
Protection	Over Load	110%~125%						
		Protection type: Constant current limiting, recovers automatically after fault condition is removed						
	Over Voltage	115%~135%						
		Protection type: Shut down o/p voltage, re-power on to recover						
	Over Temperature	RTH2≥95℃ (Detect on heatsink of Q1,Q7 power transistor & L3 output choke)						
Protection type: Shut down o/p voltage, re-power on to recover								
Environment	Working Temp & Humidity	-10℃~+60℃, 20%~90 %RH						
	Storage Temp & Humidity	-20℃~+85℃, 10%~95 %RH						
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes						
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC						
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC						
Standards	Safety Standard	Design refer to UL1950,TUV EN60950						
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024						
Others	Weight	2.6Kg						
	Packing	6pcs/15.7Kg/1.45 CUFT						

Outline and dimension



1000W SMPS with PFC and Parallel Function (HPGP-1000)



HPGP-1000...

Feature

- High efficiency, high reliability
- Universal AC input/ full range
- Built-in active PFC function, PF>0.95
- Protections: Short circuit/ Over load /Over voltage/Over temperature
- Built-in constant current limiting circuit
- Forced air cooling by built-in DC fan
- Current sharing up to 2 units or 2000W
- Built-in remote ON-OFF control and remote sense function
- Built-in active current sharing and parallel function
- 3 years warranty
- Dimensions: 278*129*127mm(L*W*H)

Notes:

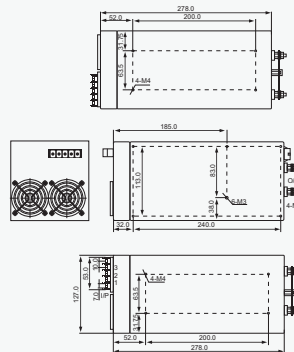
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HPGP-1000-5	HPGP-1000-12	HPGP-1000-13.5	HPGP-1000-15	HPGP-1000-24	HPGP-1000-27	HPGP-1000-48
Output	DC Voltage	5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±6%	±3%	±2%	±2%	±1%	±1%	±1%
	Rated Current	145A	75A	67A	60A	37.6A	33.6A	19A
	Current Range	0-145A	0-75A	0-67A	0-60A	0-37.6A	0-33.6A	0-19A
	Rated Power	725W	900W	904.5W	900W	902.4W	907.2W	912W
	Ripple & Noise	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p
	DC Voltage adi.Range	-5%,+10%	-17%,+10%	±11%	-10%,+20%	-17%,+10%	±11%	-15%,+17%
	Setup,Rise,Hold Time	1.5s,50ms,15ms/230VAC 1.5s,50ms,1.5ms/115VAC at full load						
Input	Voltage Range	90~264 VAC 47-63Hz;127~370VDC						
	Power Factor	PF>0.95/230VAC PF>0.95/115VAC at full load						
	AC Current	14A/115 VAC 7A/230VAC						
	Efficiency	77%	84%	84%	84%	86%	86%	86%
	Inrush Current	Cold start 40A/115VAC 70A/230VAC						
	Leakage Current	<2mA/240VAC						
Protection	Over Load	115%~140%						
		Protection type: Constant current limiting, recovers automatically after fault condition is removed						
	Over Voltage	115%~135%						
		Protection type: Shut down o/p voltage, re-power on to recover						
	Over Temperature	95 (TSW1) Detect on the heatsink of PFC MOSFET 90 (TSW2) Detect the winding of output choke						
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down						
Environment	Working Temp & Humidity	-10°C~+65°C, 20%~90 %RH						
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH						
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes						
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC						
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC						
Standards	Safety Standard	Design refer to UL1950,TUV EN60950						
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024						
Others	Weight	5.2Kg						
	Packing	3pcs/16.3Kg/1.42 CUFT						

Outline and dimension



AC Input Terminal Pin No Assignment:

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG

DC Output Terminal Pin No Assignment:

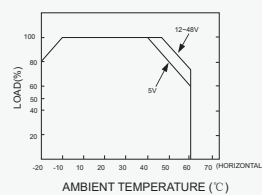
Pin No.	Assignment
1, 3	DC OUTPUT +V
2, 4	DC OUTPUT -V

Control Pin No Assignment:

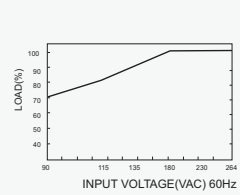
Pin No.	Assignment	Pin No.	Assignment	Mating Connector
1	PG (Power Good)	5	NC	MOLEX 5557-AR
2	-S	6	NC	
3	G	7	+S	
4	PG	8	RC+	

MOLEX 5556 Female crimp terminal receptacle

Derating curve



Output derating VS input voltage



1500W SMPS with PFC and Parallel Function (HPGP-1500)



HPGP-1500...

Feature

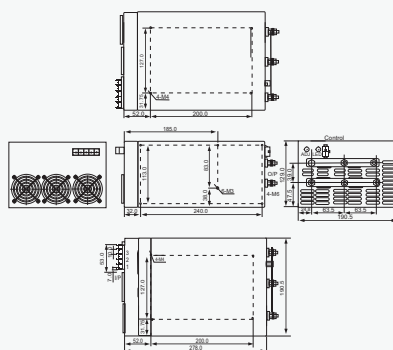
- High efficiency, high reliability
- AC input inrush current limiting
- Built-in active PFC function, PF>0.95
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Built-in constant current limiting circuit
- Built-in remote ON-OFF control and remote sense function
- 3 years warranty
- Dimensions: 278*129*190.5mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HPGP-1500-5	HPGP-1500-12	HPGP-1500-13.5	HPGP-1500-15	HPGP-1500-24	HPGP-1500-27	HPGP-1500-48
Output	DC Voltage	5V	12V	13.5V	15V	24V	27V	48V
	Voltage Tolerance	±6%	±3%	±2%	±2%	±1%	±1%	±1%
	Rated Current	217.5A	112.5A	100.5A	90A	56.4A	50.4A	28.5A
	Current Range	0-217.5A	0-112.5A	0-100.50A	0-90A	0-56.4A	0-50.4A	0-28.5A
	Rated Power	1087.5W	1350W	1356.75W	1350W	1353.6W	1360.8W	1368W
	Ripple & Noise	100mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p
	DC Voltage adi.Range	-5%,+10%	-17%,+10%	±11%	-10%,+20%	-17%,+10%	±11%	-15%,+17%
	Setup,Rise,Hold Time	1.5s,50ms,15ms/230VAC at full load						
Input	Voltage Range	176 264 VAC 47-63Hz 248 370VDC						
	Power Factor	PF>0.95/230VAC at full load						
	AC Current	10.5A/230 VAC						
	Efficiency	77%	84%	84%	84%	85%	85%	86%
	Inrush Current	Cold start 100A/230VAC						
	Leakage Current	<3.5mA/240VAC						
Protection	Over Load	115%~140%						
		Protection type: Constant current limiting, recovers automatically after fault condition is removed						
	Over Voltage	115%~135%						
		Protection type: Shut down o/p voltage, re-power on to recover						
	Over Temperature	95 (TSW1) Detect on the heatsink of PFC MOSFET 90 (TSW2) Detect the winding of output choke						
Protection type: Shut down o/p voltage, recovers automatically after temperature goes down								
Function	Remote Control	RC+/RC- 0~0.8V POWER ON 4~10V POWER OFF sink current <30mA						
Environment	Working Temp & Humidity	-10°C~+65°C, 20%~90 %RH						
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH						
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, X, Y, Z axes						
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC						
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC						
Standards	Safety Standard	Design refer to UL1950,TUV EN60950						
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024						
Others	Weight	7.4Kg						
	Packing	2pcs/15.5Kg/1.28 CUFT						

Outline and dimension

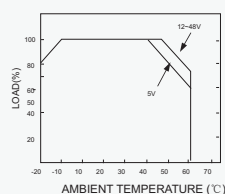


Pin No.	Assignment
1	AC/L
2	AC/N
3	FG

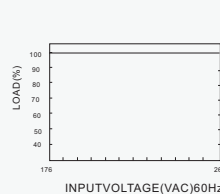
Pin No.	Assignment
1,3,5	DC OUTPUT +V
2,4,6	DC OUTPUT -V

Pin No.	Assignment	Pin No.	Assignment	Mating Connector	Terminal
1	NC	5	NC	MOLEX 5557-NR	MOLEX 5556 Female crimp Terminal receptacle
2	-S	6	NC		
3	G	7	+S		
4	PC-	8	RC+		

Derating Curve



Output Derating VS Input Voltage



600W Parallel Type(N+1)
with PFC Function
(HGCP-600)



HGCP-600...

Feature

- High reliability, low ripple noise
- AC input voltage AC200~260V
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Built-in remote ON-OFF control and remote sense function
- With parallel function (N+1)
- Can adjust from 20%~100% output voltage by external control 1-5V
- Forced air cooling by built-in DC fan
- 2 years warranty
- Dimensions: 291*132*132mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

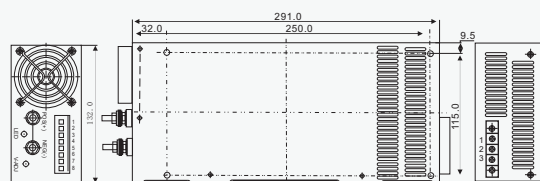
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HGCP-600-5	HGCP-600-9	HGCP-600-12	HGCP-600-15	HGCP-600-18	HGCP-600-24	HGCP-600-36	HGCP-600-48	HGCP-600-60
Output	DC Voltage	5V	9V	12V	15V	18V	24V	36V	48V	60V
	Voltage Tolerance	±1.5%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	100A	66A	50A	40A	33A	25A	16A	12A	10A
	Current Range	0-100A	0-66A	0-50A	0-40A	0-33A	0-25A	0-16A	0-12A	0-10A
	Rated Power	500W	594W	600W	600W	600W	600W	500W	576W	600W
	Ripple & Noise	100mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p	360mVp-p	480mVp-p	500mVp-p
	DC Voltage adi.Range	Can adjust from 20%~100% output voltage by external control 1-5V								
	Setup,Rise,Hold Time	500ms, 250ms, 16ms at full load								
Input	Voltage Range	180~260VAC 47-63 Hz;selected by switch 260~370VDC								
	AC Current	5.0A/ 230 VAC								
	Efficiency	80%	82%	84%	85%	86%	89%	89%	90%	90%
	Inrush Current	60A/230V								
	Leakage Current	3.5 mA/240VAC								
Protection	Over Load	105%~115%								
		Protection type: Current limiting, delay shut down o/p voltage, re-power on to recover								
	Over Voltage	110%~135%								
		Protection type: Shut down o/p voltage, re-power on to recover								
Over Temperature	TSW1(Power transistor)When Temp. >100℃, shut down o/p voltage. Temp.<100℃, O/I auto-recovery									
Environment	Working Temp & Humidity	-20℃~+65℃, 20%~90 %RH								
	Storage Temp & Humidity	-20℃~+85℃, 10%~95 %RH								
	Vibration	10~200Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG :100M Ohms / 500VDC								
Standards	Safety Standard	Design refer to UL60950,TUV EN60950								
	EMC Standard	Design refer to EN55022,EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11								
Others	Weight	2.3Kg								
	Packing	8pcs/20kg/CARTON								

Outline and dimension

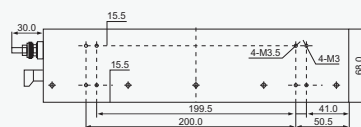


Terminal Pin No. Assignment:

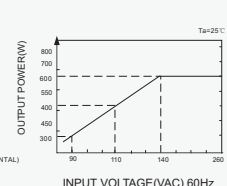
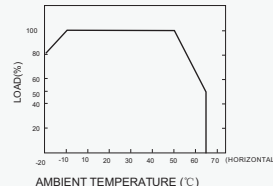
Pin Number	Assignment
1	AC/L
2	AC/N
3	FG

Control Terminal Pin No. Assignment(CN1):

PinNo.	Assignment	PinNo.	Assignment	Mating With
1	VS+	5	PC	Dinkle 51HDBC-08P or equivalent
2	VS-	6	PAR	
3	VCI	7	GND	
4	VCD	8	INH	



Derating curve



800W Parallel Type(N+1) with PFC Function (HGCP-800)



HGCP-800...

Feature

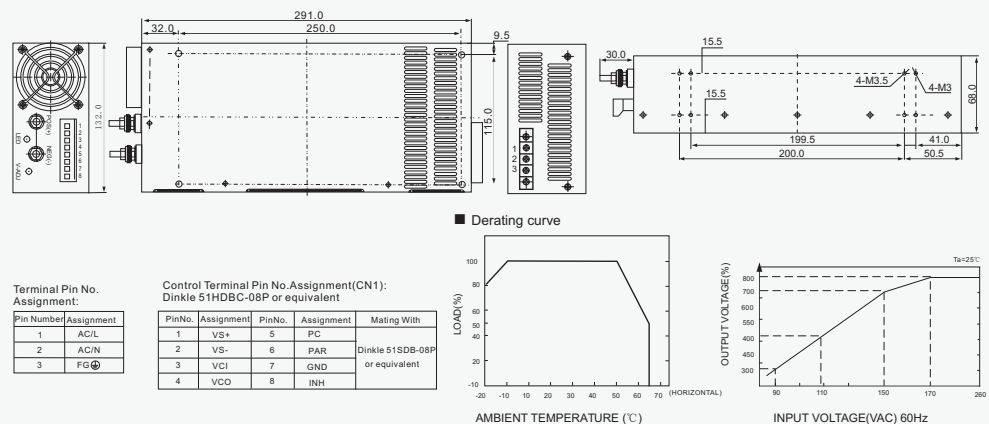
- High reliability, low ripple noise
- AC input voltage AC200~260V
- Protections: Short circuit/ Over load/ Over voltage/Over temperature
- Built-in remote ON-OFF control and remote sense function
- With parallel function (N+1)
- Can adjust from 20%~100% output voltage by external control 1-5V
- Forced air cooling by built-in DC fan
- 3 years warranty
- Dimensions: 291*132*132mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HGCP-800-9	HGCP-800-12	HGCP-800-15	HGCP-800-18	HGCP-800-24	HGCP-800-36	HGCP-800-48	HGCP-800-60
Output	DC Voltage	9V	12V	16V	18V	24V	36V	48V	60V
	Voltage Tolerance	±1.5%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	88A	66A	53A	44A	33A	22A	16A	13A
	Current Range	0-88A	0-66A	0-53A	0-44A	0-33A	0-22A	0-16A	0-13A
	Rated Power	792W	792W	795W	800W	792W	800W	768W	780W
	Ripple & Noise	90mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p	360mVp-p	480mVp-p	500mVp-p
	DC Voltage adi.Range	Can adjust from 20%~100% output voltage by external control 1-5V							
Input	Setup,Rise,Hold Time	800ms, 400ms, 12ms at full load							
	Voltage Range	180~260VAC 47-63 Hz;selected by switch 260~370VDC							
	AC Current	5.0A/ 230 VAC							
	Efficiency	83%	84%	85%	86%	88%	88%	89%	90%
	Inrush Current	60A/230V							
Protection	Leakage Current	3.5 mA/240VAC							
	Over Load	105%~115% Protection type: Current limiting, delay shut down o/p voltage, re-power on to recover							
	Over Voltage	110%~135% Protection type: Shut down o/p voltage, re-power on to recover							
	Over Temperature	TSW1(Powre transistor)temp.>100℃, shut down o/p voltage. Temp. <100℃, O/I auto-recovery							
Environment	Working Temp & Humidity	-20℃~+65℃, 20%~90 %RH							
	Storage Temp & Humidity	-20℃~+85℃, 10%~95 %RH							
	Vibration	10~200Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes							
Safety	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG :100M Ohms / 500VDC							
Standards	Safety Standard	Design refer to 60950,TUV EN60950							
	EMC Standard	Design refer to EN55022,EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11							
Others	Weight	2.3Kg							
	Packing	8pcs/20kg/CARTON							

Outline and dimension



1200W Parallel Type(N+1)
with PFC Function
(HGCP-1200)



HGCP-1200...

Feature

- High reliability, low ripple noise
- AC input voltage AC200~260V
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Built-in remote ON-OFF control and remote sense function
- With parallel function (N+1)
- Can adjust from 20%~100% output voltage by external control 1-5V
- Forced air cooling by built-in DC fan
- 2 years warranty
- Dimensions: 291*132*132mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

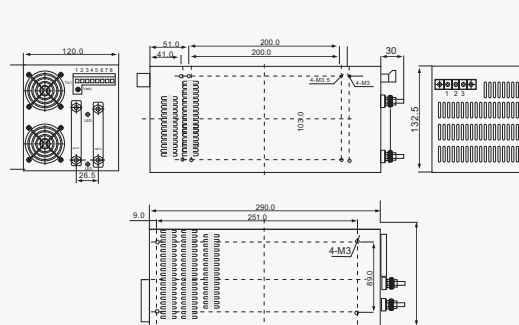
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HGCP-1K2-5	HGCP-1K2-9	HGCP-1K2-12	HGCP-1K2-15	HGCP-1K2-18	HGCP-1K2-24	HGCP-1K2-36	HGCP-1K2-48	HGCP-1K2-60
Output	DC Voltage	5V	9V	12V	15V	18V	24V	36V	48V	60V
	Voltage Tolerance	±2%	±1.5%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
	Rated Current	200A	133A	100A	80A	66A	50A	33A	24A	20A
	Current Range	0-200A	0-133A	0-100A	0-80A	0-66A	0-50A	0-33A	0-24A	0-20A
	Rated Power	1000W	1200W	1200W	1200W	1200W	1200W	1200W	1152W	1200W
	Ripple & Noise	100mVp-p	100mVp-p	120mVp-p	150mVp-p	180mVp-p	240mVp-p	360mVp-p	480mVp-p	500mVp-p
	DC Voltage adi.Range	Can adjust from 20%~100% output voltage by external control 1-5V								
	Setup,Rise,Hold Time	500ms, 50ms, 16ms at full load								
Input	Voltage Range	180~260VAC 47-63 Hz;selected by swith 260~370VDC								
	AC Current	10A/ 230 VAC								
	Efficiency	80%	82%	84%	85%	86%	89%	89%	90%	90%
	Inrush Current	60A/230V								
	Leakage Current	3.5 mA/240VAC								
Protection	Over Load	105%~140%								
		Protection type: Current limiting, delay shut down o/p voltage, re-power on to recover								
	Over Voltage	110%~135%								
		Protection type: Shut down o/p voltage, re-power on to recover								
Over Temperature	TSW1(Power transistor)Temp.>100℃, shut down o/p voltage. Temp<100℃, O/I auto-recovery.									
Environment	Working Temp & Humidity	-20℃~+65℃, 20%~90 %RH								
	Storage Temp & Humidity	-20℃~+85℃, 10%~95 %RH								
	Vibration	10~200Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG :100M Ohms / 500VDC								
Standards	Safety Standard	Design refer to UL60950,TUV EN60950								
	EMC Standard	Design refer to EN55022,EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11								
Others	Weight	4.5Kg;								
	Packing	4pcs/19kg/CARTON								

Outline and dimension



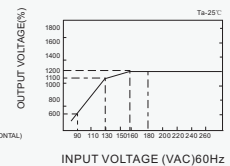
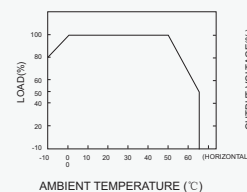
Terminal pin No. assignment

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG

Control terminal pin No. assignment(CN1):

Pin No.	Assignment	Pin No.	Assignment	Mating with
1	VS+	5	PG	Dinkle 51HDBC-08P or equivalent
2	VS-	6	PAR	
3	VCI	7	GND	
4	VCD	8	INH	

Derating curve



2400W Parallel Type(N+1) with PFC Function (HGCP-2400)



HGCP-2400...

Feature

- AC input 180~260VAC, 3Φ3 wire
- AC 220V, 1Φ or 380V, 3Φ4 wire (Option)
- PF>0.98 @ 230VAC
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Built-in remote ON-OFF control and remote sense function
- With good signal
- With parallel function(N+1)
- Can adjust from 20%~100% output voltage by external control 1-5V
- Forced air cooling by built-in DC fan
- 3 years warranty
- Dimension: 350*212*124mm(L*W*H)

Notes:

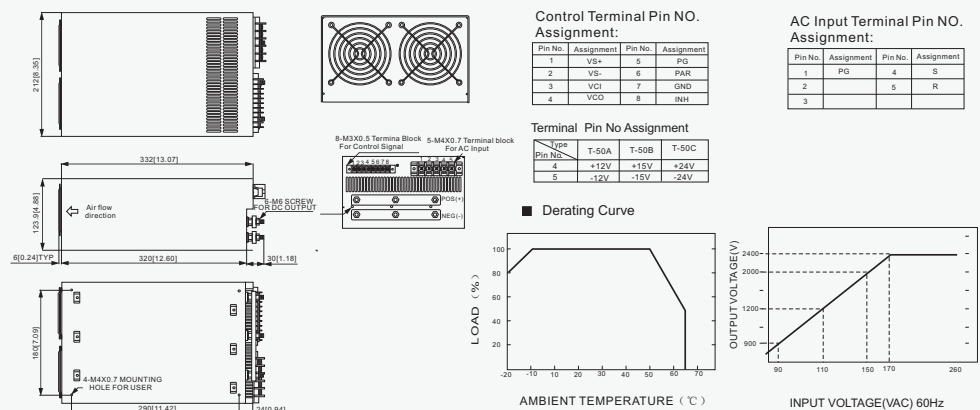
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model	HGCP-2K4-9	HGCP-2K4-12	HGCP-2K4-15	HGCP-2K4-18	HGCP-2K4-24	HGCP-2K4-36	HGCP-2K4-48
Output	DC Voltage	9V	12V	15V	18V	24V	48V
	Voltage Tolerance	±2%	±1%	±1%	±1%	±1%	±1%
	Rated Current	266A	200A	160A	133A	100A	50A
	Current Range	0-266A	0-200A	0-160A	0-133A	0-100A	0-50A
	Rated Power	2400W	2400W	2400W	2400W	2400W	2400W
	Ripple & Noise	90mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
	DC Voltage adi.Range	Can adjust from 20%~100% output voltage by external control 1-5V					
	Setup,Rise,Hold Time	800ms, 400ms, 12ms at full load					
Input	Voltage Range	180~260VAC 3Φ4 wire, 47~63 Hz					
	AC Current	15A/ 230 VAC					
	Efficiency	83%	84%	85%	86%	88%	90%
	Inrush Current	60A/230V					
	Leakage Current	3.5 mA/240VAC					
Protection	Over Load	110%~140%					
		Protection type: Current limiting, delay shut down o/p voltage, re-power on to recover					
	Over Voltage	110%~135%					
		Protection type: Shut down o/p voltage, re-power on to recover					
Environment	Over Temperature	TSW1(Power transistor)When Temp.>100°C, shut down o/p voltage, Temp.<100°C, O/I auto -recovery.					
	Working Temp & Humidity	-20°C ~+65°C, 20%~90%RH					
	Storage Temp & Humidity	-20°C ~+85°C, 10%~95%RH					
	Vibration	10~200Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes					
Safety	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC					
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG :100M Ohms / 500VDC					
Standards	Safety Standard	Design refer to UL60950,TUV EN60950 Approved					
	EMC Standard	Design refer to EN55022,EN61000-3-2,3, EN61000-4-2,3,4,5,6,8,11					
Others	Weight	9.0Kg;					
	Packing	1pcs/10kg/CARTON					

Outline and dimension



25W Single Output Switching Power Supply (GPS-25)



GPS-25...

Feature

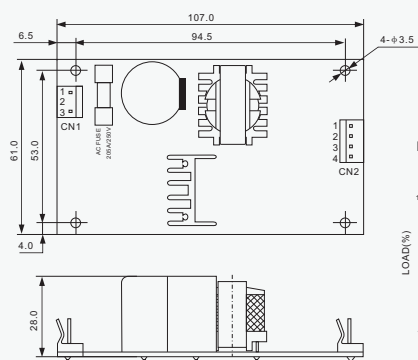
- High efficiency, high reliability
- Universal AC input/ full range
- Low leakage current <0.5mA
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage/ Over temp.
- Cooling by free air convection
- Fixed switching frequency at 100KHz
- 2 years warranty
- Dimensions: 107*61*28mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GPS-25-3.3	GPS-25-5	GPS-25-7.5	GPS-25-12	GPS-25-13.5	GPS-25-15	GPS-25-24	GPS-25-27	GPS-25-48
Output	DC Voltage	3.3V	5V	7.5V	12V	13.5V	15V	36V	27V	48V
	Voltage Tolerance	±3%	±2%	±2%	±2%	±2%	±2%	±2%	±2%	±2%
	Rated Current	5A	5A	3.3A	2.1A	1.9A	1.7A	1A	0.9A	0.5A
	Current Range	0-5A	0-5A	0-3.3A	0-2.1A	0-1.9A	0-1.7A	0-1A	0-0.9A	0-0.5A
	Rated Power	16.5W	25W	24.8W	25.2W	25.7W	25.5W	24W	24.3W	24W
	Ripple & Noise	80mVp-p	80mVp-p	80mVp-p	100mVp-p	100mVp-p	100mVp-p	240mVp-p	240mVp-p	350mVp-p
	Setup,Rise,Hold Time	200ms, 20ms, 100ms /230VAC 200ms, 30ms, 20ms /115VAC at full load								
Input	Voltage Range	85~264VAC 47-63Hz ; 120~370VDC								
	AC Current	0.6A/115VAC 0.4A/230VAC								
	Efficiency	66%	74%	76%	78%	78%	78%	79%	79%	79%
	Inrush Current	Cold start 36A/230VAC								
	Leakage Current	<0.5 mA/240VAC								
Protection	Over Load	>105%, Hiccup mode, recovers automatically after fault condition is removed								
	Over Voltage	115%-135% Shut down o/p voltage, re-power on to removed								
	Over Temperature	U1≥135℃ Shut down o/p voltage, auto-recovery								
Environment	Working Temp & Humidity	-10℃~+60℃, 20%~90 %RH								
	Storage Temp & Humidity	-20℃~+85℃, 10%~95 %RH								
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC								
Standards	Safety Standard	Design refer to UL60950-1, TUV EN60950-1								
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5								
Others	Weight	0.14Kg								
	Packing	96pcs/15Kg/1.3CUFT								

Outline and dimension



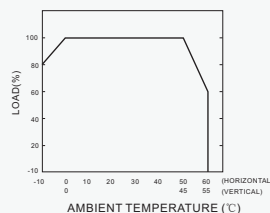
AC input connector (CN1):
Molex 41791-03 or equivalent

Pin No.	Assignment	Mating housing	Terminal
1	AC/L	Molex 2139 or equivalent	Molex 2139 or equivalent
2	No pin		
3	AC/N		

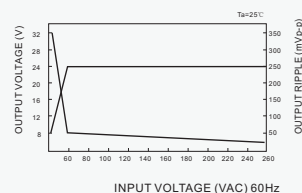
DC output connector (CN2):
Molex 41791-04 or equivalent

Pin No.	Assignment	Mating housing	Terminal
1,2	+V	Molex 2139 or equivalent	Molex 2478 or equivalent
3,4	-V		

Output derating



Static characteristics(24V)



45W Single Output Switching Power Supply (GPS-45)



GPS-45...

Feature

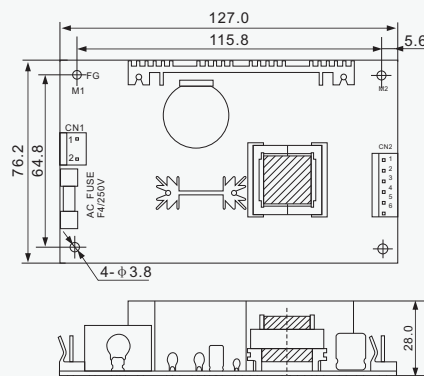
- High efficiency, high reliability
- Universal AC input / full range
- Low leakage current <0.5mA
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage
- Cooling by free air convection
- Fixed switching frequency at 65KHz
- 2 years warranty
- Dimensions: 127*76.2*28mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GPS-45-3.3	GPS-45-5	GPS-45-7.5	GPS-45-12	GPS-45-13.5	GPS-45-15	GPS-45-24	GPS-45-27	GPS-45-48
Output	DC Voltage	3.3V	5V	7.5V	12V	13.5V	15V	36V	27V	48V
	Voltage Tolerance	±3%	±3%	±3%	±2%	±2%	±2%	±2%	±2%	±2%
	Rated Current	8A	8A	5.4A	3.7A	3.3A	3A	1.9A	1.7A	1A
	Current Range	0-10.7A	0-10.5A	0-7A	0-4.4A	0-3.9A	0-3.5A	0-2.2A	0-1.95A	0-1.1A
	Rated Power	26.4W	40W	40.5W	44.4W	44.6W	45W	45.6W	45.9W	48W
	Ripple & Noise	80mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
	DC Voltage Adj.Range	-5%, +10%								
	Setup,Rise,Hold Time	800ms, 30ms, 60ms at full load								
Input	Voltage Range	90~264VAC 47-440Hz; 127~370VDC								
	AC Current	0.8A/115VAC 0.56A/230VAC								
	Efficiency	69%	74%	75%	76%	77%	77%	78%	78%	78%
	Inrush Current	Cold start 15A/115VAC 30A/230VAC								
	Leakage Current	<0.75 mA/240VAC								
Protection	Over Load	53-75W(3.3V:36-55W) Fold back current limiting, recovers automatically after fault condition is removed								
	Over Voltage	115%-135% Hiccup mode, recovers automatically after fault condition is removed								
	Over Temperature	U1≥135℃ Shut down o/p voltage, auto-recovery								
Environment	Working Temp & Humidity	-10℃~-+60℃, 20%~90 %RH								
	Storage Temp & Humidity	-20℃~-+85℃, 10%~95 %RH								
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC								
Standards	Safety Standard	Design refer to UL60950, TUV EN60950-1								
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11; ENV50204,EN55024								
Others	Weight	0.19Kg								
	Packing	72pcs/15.6Kg/1.35CUFT								

Outline and dimension



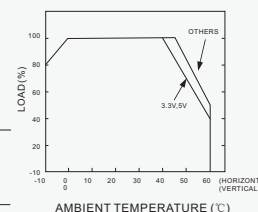
AC input connector (CN1):
Molex 5277-02 or equivalent

Pin No.	Assignment	Mating housing	Terminal
1	AC/N	Molex 5195 or equivalent	Molex 5194 or equivalent
2	AC/L		

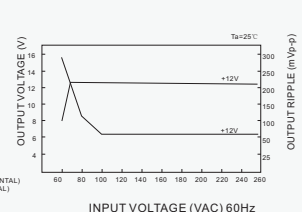
DC output connector (CN2):
Molex 5273-06 or equivalent

Pin No.	Assignment	Mating housing	Terminal
1,2,3	+V	Molex 5195 or equivalent	Molex 5194 or equivalent
4,5,6	-V		

Output Derating



Static characteristics



65W Single Output Switching Power Supply (GPS-65)



GPS-65...

Feature

- High efficiency, high reliability
- Universal AC input/ full range
- Low leakage current <0.5mA
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage
- Cooling by free air convection
- Fixed switching frequency at 65KHz
- 2 years warranty
- Dimensions: 127*76.2*42mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

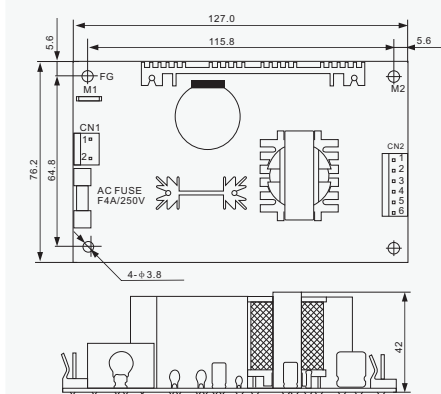
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GPS-65-3.3	GPS-65-5	GPS-65-7.5	GPS-65-12	GPS-65-13.5	GPS-65-15	GPS-65-24	GPS-65-27	GPS-65-48
Output	DC Voltage	3.3V	5V	7.5V	12V	13.5V	15V	36V	27V	48V
	Voltage Tolerance	±3%	±3%	±3%	±2%	±2%	±2%	±2%	±2%	±2%
	Rated Current	12A	12A	8A	5.2A	4.7A	4.2A	2.7A	2.4A	1.3A
	Current Range	0-15.2A	0-13.8A	0-9.6A	0-6A	0-5.4A	0-4.8A	0-3A	0-2.7A	0-1.5A
	Rated Power	39.6W	60W	60W	62.4W	63.5W	63W	64.8W	64.8W	64.8W
	Ripple & Noise	80mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p	100mVp-p
	DC Voltage Adj.Range	-5%, +10%								
	Setup,Rise,Hold Time	800ms, 20ms, 60ms at full load								
Input	Voltage Range	90~264VAC 47-440Hz; 127~370VDC								
	AC Current	1.2A/115VAC 0.72A/230VAC								
	Efficiency	69%	76%	79%	79%	79%	79%	80%	80%	80%
	Inrush Current	Cold start 20A/115VAC 40A/230VAC								
	Leakage Current	<0.5 mA/240VAC								
Protection	Over Load	53-75W 3.3V/36-55W Hiccupe mode, recovers automatically after fault condition is removed								
	Over Voltage	115%~135% Hiccup mode, reovers automatically after fault condition is removed								
Environment	Working Temp & Humidity	-10°C~-+60°C, 20%~90 %RH								
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH								
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes								
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC								
Standards	Safety Standard	Design refer to UL60950, TUV EN60950-1								
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11; ENV50204,EN55024								
Others	Weight	0.21Kg								
	Packing	54pcs/14.2Kg/1.35CUFT								

Outline and dimension



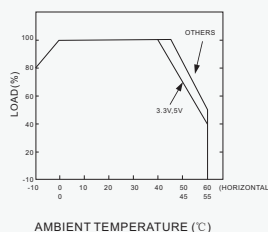
AC input connector (CN1):
Molex 5277-02 or equivalent

Pin No.	Assignment	Mating housing	Terminal
1	AC/N	Molex 5195 or equivalent	Molex 5194 or equivalent
2	AC/L		

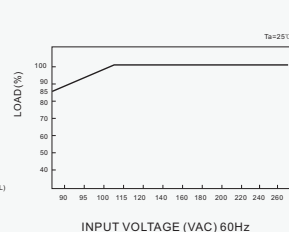
DC output connector (CN2):
Molex 5273-06 or equivalent

Pin No.	Assignment	Mating housing	Terminal
1,2,3	+V	Molex 5195 or equivalent	Molex 5194 or equivalent
4,5,6	-V		

Output Derating



Output derating VS input voltage



25W Dual Output Switching Power Supply (GPD-25)



GPD-25...

Feature

- High efficiency, high reliability
- Universal AC input/ full range
- Low leakage current <0.5mA
- Protections: Short circuit/ Over load/ Over voltage / Over temp
- 100% full load burn-in test
- Cooling by free air convection
- Fixed switching frequency at 100KHz
- 2 years warranty
- Dimensions: 107*61*28mm(L*W*H)

Notes:

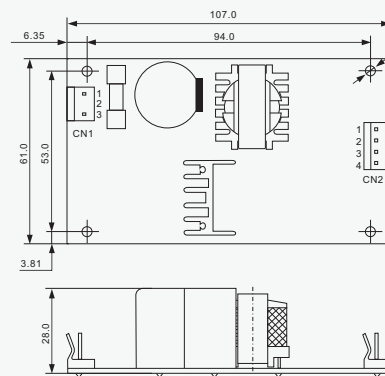
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GPD-25A		GPD-25B		GPD-2505		GPD-2512		GPD-2515		
		CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2	
Output	DC Voltage	5V	12V	5V	24V	5V	-5V	12V	-12V	15V	-15V	
	Voltage Tolerance	±2%	±6%	±2%	±6%	±6%	±6%	±4%	±4%	±4%	±4%	
	Rated Current	2.1A	1.2A	1.2A	0.8A	2.5A	2.5A	1A	1A	0.8A	0.8A	
	Current Range	0.2-2.5A	0.1-1.5A	0.2-2A	0.1-1A	0.1-3A	0.1-2.5A	0.1-1.2A	0.1-1.2A	0.1-1A	0.1-1A	
	Rated Power	25W		25.2W		25W		24W		24W		
	Ripple & Noise	50mV	150mV	50mV	200mV	50mV	50mV	50mV	50mV	50mV	50mV	
	Setup,Rise,Hold Time	250ms, 50ms, 100ms/ 230VAC 250ms,30ms, 16ms/115VAC at full load										
Input	Voltage Range	85~264VAC 127~370VAC 47-63Hz										
	AC Current	0.65A/115VAC 0.4A/230VAC										
	Efficiency	71%		77%		73%		74%		75%		
	Inrush Current	Cold start 32A										
	Leakage Current	<0.5 mA/240VAC										
Protection	Over Load	>105% Protection type: Hiccup mode, recovers automatically after fault condition is removed										
	Over Voltage	115%~135% Protection type: Shut down o/p voltage, re-power on to recover										
	Over Temperature	U1≥135℃ shut down o/p voltage, recovers automatically after fault condition is removed										
Environment	Working Temp & Humidity	-10℃~+60℃, 20%~90 %RH										
	Storage Temp & Humidity	-20℃~+85℃, 10%~95 %RH										
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes										
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC										
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC										
Standards	Safety Standard	Design refer to UL60950-1, TUV EN60950-1										
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5										
Others	Weight	0.15Kg										
	Packing	96pcs/15.9Kg/1.3CUFT										

Outline and dimension



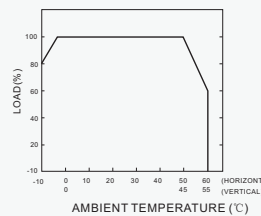
AC input connector (CN1)

Pin No.	Assignment	Mating housing	Terminal
1	AC/L	Molex 2139 or equivalent	Molex 2139 or equivalent
2	No pin		
3	AC/N		

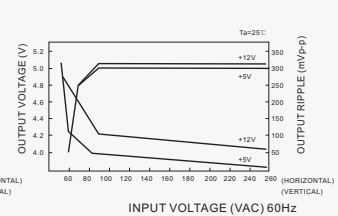
DC output connector (CN2)

Pin No.	Assignment	Mating housing	Terminal
1	V1	Molex 2139 or equivalent	Molex 2478 or equivalent
2,3	COM		
4	V2		

Output derating



Static characteristics



45W Dual Output Switching Power Supply (GPD-45)



GPD-45...

Feature

- High efficiency, high reliability
- Universal AC input /full range
- Low leakage current <0.5mA
- Protections: Short circuit/ Over load/ Over voltage
- 100% full load burn-in test
- Cooling by free air convection
- 2 years warranty
- Fixed switching frequency at 65KHz
- Dimensions: 127*76.2*28mm(L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

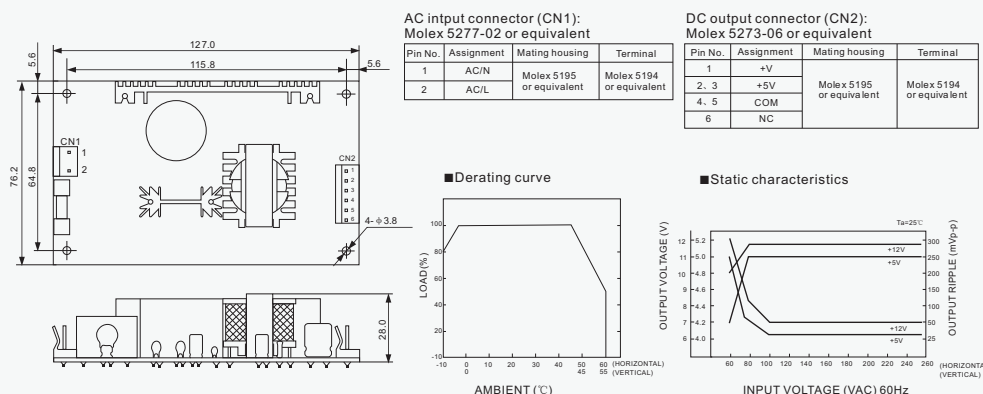
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GPD-45A		GPD-45B	
		CH1	CH2	CH1	CH2
Output	DC Voltage	5V	12V	5V	24V
	Voltage Tolerance	±4%	±7%	±4%	±7%
	Rated Current	3.2A	2A	3.2A	1.2A
	Current Range	0.4-5A	0.2-2.5A	0.4-5A	0.2-1.8A
	Rated Power	40W		44.8W	
	Ripple & Noise	50mVp-p	120mVp-p	50mVp-p	150mVp-p
	Setup,Rise,Hold Time	800ms, 20ms, 60ms at full load			
Input	Voltage Range	90~264VAC 47~440Hz ; 127~370VAC			
	AC Current	1A/115VAC 0.7A/230VAC			
	Efficiency	77%		78%	
	Inrush Current	Cold start 15A/115VAC 30A/230VAC			
	Leakage Current	<0.5 mA			
Protection	Over Load	53-75W Protection type: Fold back current limiting, recovers automatically after fault condition is removed			
	Over Voltage	CH1:115%~135% Protection type: Fold back current limiting, recovers automatically after fault condition is removed			
Environment	Working Temp & Humidity	-10℃~-+60℃, 20%~90 %RH			
	Storage Temp & Humidity	-20℃~-+85℃, 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC			
Standards	Safety Standard	Design refer to UL60950, TUV EN60950-1			
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11;ENV50204,EN55024			
Others	Weight	0.2Kg			
	Packing	72pcs/16Kg/1.35CUFT			

Outline and dimension



65W Dual Output Switching Power Supply (GPD-65)



GPD-65...

Feature

- High efficiency, high reliability
- Universal AC input/ full range
- Low leakage current <0.5mA
- 100% full load burn-in test
- Protections: Short circuit/ Over load/ Over voltage
- Cooling by free air convection
- Fixed switching frequency at 65KHz
- 2 years warranty
- Dimensions: 127*76.2*42mm (L*W*H)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

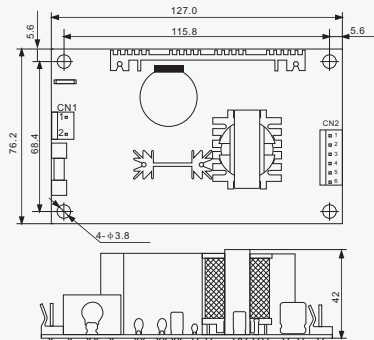
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μ f parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		GPD-65A		GPD-65B	
		CH1	CH2	CH1	CH2
Output	DC Voltage	5V	12V	5V	24V
	Voltage Tolerance	±4%	±7%	±4%	±7%
	Rated Current	5.5A	2.8A	3.5A	2A
	Current Range	0.4-7A	0.2-3.2A	0.4-6A	0.2-2.6A
	Rated Power	61.1W		65.5W	
	Ripple & Noise	50mVp-p	120mVp-p	50mVp-p	120mVp-p
	Setup,Rise,Hold Time	800ms, 20ms, 60ms at full load			
Input	Voltage Range	90~264VAC 47-440Hz; 127~370VAC			
	AC Current	1.5A/115VAC 0.9A/230VAC			
	Efficiency	78%		81%	
	Inrush Current	Cold start 20A/115VAC 40A/230VAC			
	Leakage Current	<0.5 mA			
Protection	Over Load	73-105W Protection type: Hiccup mode, recovers automatically after fault condition is removed			
	Over Voltage	CH1~115%~135% Protection type: Hiccup mode, recovers automatically after fault condition is removed			
Environment	Working Temp & Humidity	-10°C~+60°C, 20%~90 %RH			
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC			
Standards	Safety Standard	Design refer to UL60950, TUV EN60950-1			
	EMC Standard	Design refer to EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11; ENV50204,EN55024			
Others	Weight	0.24Kg			
	Packing	54pcs/15Kg/1.35CUFT			

Outline and dimension



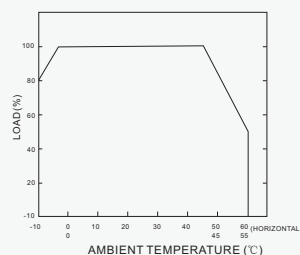
AC input connector (CN1):
Molex 5277-02 or equivalent

Pin No.	Assignment	Mating housing	Terminal
1	AC/N	Molex 5195 or equivalent	Molex 5194 or equivalent
2	AC/L		

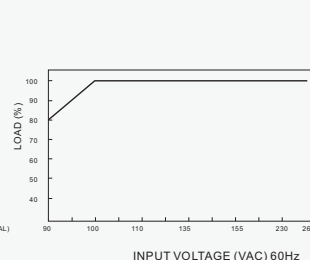
DC output connector (CN2):
Molex 5273-06 or equivalent

Pin No.	Assignment	Mating housing	Terminal
1	+V	Molex 5195 or equivalent	Molex 5194 or equivalent
2, 3	+5V		
4, 5	COM		
6	NC		

■ Output derating



■ Static characteristics



20W Single Output Industrial DIN Rail Power Supply (GDR-20)



GDR-20...

Feature

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- NEC class 2 / LPS compliant
- Built in DC OK active signal
- LED indicator for power on
- No load power consumption<0.75W
- 100% full load burn-in test
- 3 years warranty

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

- Tolerance : includes set up tolerance, line regulation and load regulation.

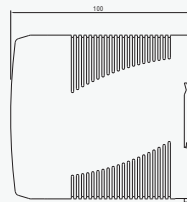
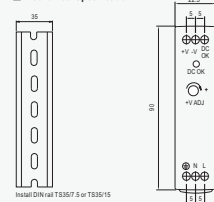
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

- Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.

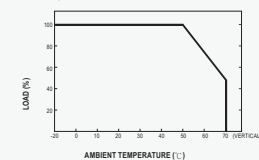
Model		GDR-20-5	GDR-20-12	GDR-20-15	GDR-20-24
Output	DC Voltage	5V	12V	15V	24V
	Rated Current	3A	1.67A	1.34A	1A
	Current Range	0~3A	0~1.67A.	0~1.34A	0~1A
	Rated Power	15W	20W	20W	24W
	Ripple & Noise	80mVp-p	120mVp-p	120mVp-p	150mVp-p
	DC Voltage Adj.Range	4.75-5.5V	10.8-13.2V	13.5-16.5V	21.6-26.4V
	Voltage Tolerance	±2.0%	±1.0%	±1.0%	±1.0%
	Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%
	Setup, Rise Time	500ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load			
Hold Up Time (Typ.)	50ms/230VAC 120-370VDC				
Input	Voltage Range	85-264VAC 120-370VDC			
	Frequency range	47-63Hz			
	Efficiency	76%	80%	81%	84%
	AC Current(Typ.)	0.55A/115VAC 0.35A/230VAC			
	Inrush current(Typ.)	Cold start 20A/115VAC 40A/230VAC			
Protection	Over Load	105%~160% rated output power Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	Over Voltage	5.75-6.75V	13.8-16.2V	17.25-20.25V	27.6-32.4V
		Protection type: shut down o/p voltage, re-power on to recover			
Function	DC OK AC tive signal	3.75-6V/50mA	9-13.5V/40mA	11.5-16.5V/40mA	18-27V/20mA
Environment	Working temp.	-20~+70℃ (Refer to output load derating curve)			
	Working humidity	20℃~90℃, RH non-condensing			
	Storage Temp & Humidity	-40℃~+85℃, 10%~95 %RH			
	Temp. coefficient	±0.03%/℃(0-55℃)			
	Vibration	Component:10-500Hz, 2G 10min./1cycle, 60min, each along X,Y,Z axes;Mounting:Compliance to IEC60068			
Safety & EMC	Safety standards	UL508, TUV EN60950-1 approved, NEC class 2 / LPS compliant			
	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC			
	EMI conduction	Compliance to EN55011,EN55022 (CISPR22), EN61204-3 Class B			
	Harmonic current	Compliance to EN61000-3-2,-3			
	EMS immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024,EN61000-6-1,EN61204-3, light industry level, criteria A			
Others	Mibf	236.9k hrs min, MIL-HDBK-217F(25℃)			
	Dimension	22.5x90x100mm(WxHxD)			
	Packing	0.19kg; 72pcs/14.7kg/0.91cuft			

Outline and dimension

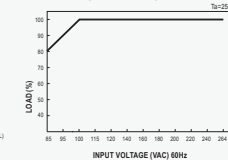
Mechanical Specification



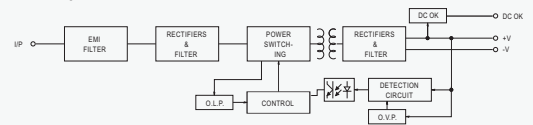
Derating Curve



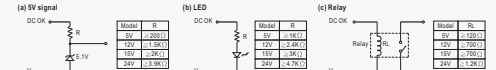
Output Derating VS Input Voltage



Block Diagram



Application of DC OK Active Signal



40W Single Output Industrial DIN Rail Power Supply (GDR-40)



GDR-40...

Feature

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- NEC class 2 / LPS compliant (12V,24V,48V only)
- LED indicator for power on
- DC OK relay contact
- No load power consumption<0.75W
- 100% full load burn-in test
- 3 years warranty

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.

• Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

• Tolerance : includes set up tolerance, line regulation and load regulation.

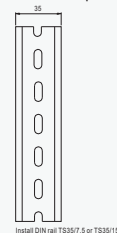
• The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

• Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.

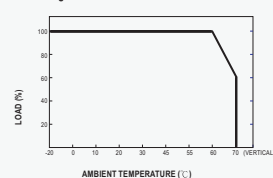
Model		GDR-40-5		GDR-40-12		GDR-40-24		GDR-40-48	
Output	DC Voltage	5V		12V		24V		48V	
	Rated Current	6A		3.33A		1.7A		0.83A	
	Current Range	0-6A		0-3.33A		0-1.7A		0-0.83A	
	Rated Power	30W		40W		40.8W		39.8W	
	Ripple & Noise	80mVp-p		120mVp-p		150mVp-p		200mVp-p	
	DC Voltage Adj.Range	5-6V		12-15V		24-30V		48-56V	
	Voltage Tolerance	±2.0%		±1.0%		±1.0%		±1.0%	
	Line Regulation	±1.0%		±1.0%		±1.0%		±1.0%	
	Load Regulation	±1.0%		±1.0%		±1.0%		±1.0%	
	Setup, Rise Time	500ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load							
Hold Up Time (Typ.)	50ms/230VAC 120-370VDC								
Input	Voltage Range	85-264VAC 120-370VDC							
	Frequency range	47-63Hz							
	Efficiency	78%		86%		88%		88%	
	AC Current(Typ.)	1.1A/115VAC 0.7A/230VAC							
	Inrush current(Typ.)	Cold start 30A/115VAC 60A/230VAC							
Protection	Over Load	105%~150% rated output power Protection type: Constant current limiting, recovers automatically after fault condition is removed							
	Over Voltage	6.25-7.25V		15.6-18V		31.2-36V		57.6-64.8V	
		Protection type: shut down o/p voltage, re-power on to recover							
Function	DC OK AC tive signal	Relay contact rating(max.):30V/1A resistive							
Environment	Working temp.	-20+70℃ (Refer to output load derating curve)							
	Working humidity	20℃~90℃, RH non-condensing							
	Storage Temp & Humidity	-40℃~+85℃, 10%~95 %RH							
	Temp. coefficient	±0.03%/℃(0-50℃)							
	Vibration	Component:10-500Hz, 2G 10min./1cycle, 60min, each along X,Y,Z axes;Mounting:Compliance to IEC60068							
Safety & EMC	Safety standards	UL508, TUV EN60950-1 approved, NEC class 2 / LPS compliant							
	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500VDC 25℃ 70%RH							
	EMI conduction	Compliance to EN55011,EN55022 (CISPR22), EN61204-3 Class B							
	Harmonic current	Compliance to EN61000-3-2,-3							
	EMS immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A							
Others	Mibf	301.7k hrs min, MIL-HDBK-217F(25℃)							
	Dimension	40x90x100mm(WxHxD)							
	Packing	0.3kg; 42pcs/13.6kg/0.82cuft							

Outline and dimension

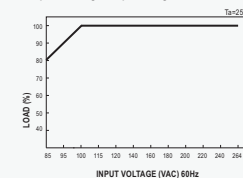
Mechanical Specification



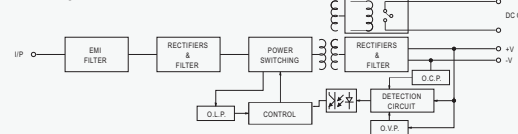
Derating Curve



Output Derating VS Input Voltage



Block Diagram



DC OK Relay Contact

Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 90% output voltage.
Contact Ratings (max.)	30V/1A resistive load

60W Single Output Industrial DIN Rail Power Supply (GDR-60)



GDR-60...

Feature

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- NEC class 2 / LPS compliant (24V,48V only)
- LED indicator for power on
- DC OK relay contact
- No load power consumption<0.75W
- 100% full load burn-in test
- 3 years warranty

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.

• Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

• Tolerance : includes set up tolerance, line regulation and load regulation.

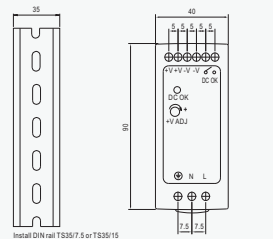
• The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

• Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.

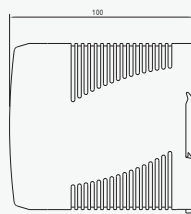
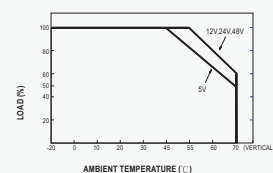
Model		GDR-60-5	GDR-60-12	GDR-60-24	GDR-60-48
Output	DC Voltage	5V	12V	24V	48V
	Rated Current	10A	5A	2.5A	1.25A
	Current Range	0-10A	0-5A	0-2.5A	0-1.25A
	Rated Power	50W	60W	60W	60W
	Ripple & Noise	80mVp-p	120mVp-p	150mVp-p	200mVp-p
	DC Voltage Adj.Range	5-6V	12-15V	24-30V	48-56V
	Voltage Tolerance	±2.0%	±1.0%	±1.0%	±1.0%
	Line Regulation	±1.0%	±1.0%	±1.0%	±1.0%
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%
	Setup, Rise Time	500ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load			
Hold Up Time (Typ.)	50ms/230VAC 120-370VDC				
Input	Voltage Range	85-264VAC 120-370VDC			
	Frequency range	47-63Hz			
	Efficiency	78%	86%	88%	87%
	AC Current(Typ.)	1.8A/115VAC 1A/230VAC			
	Inrush current(Typ.)	Cold start 30A/115VAC 60A/230VAC			
Leakage current	<1mA/240VAC				
Protection	Over Load	105%~150% rated output power Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	Over Voltage	6.25-7.25V	15.6-18V	31.2-36V	57.6-64.8V
Function	DC OK AC tive signal	Relay contact rating(max.):30V/1A resistive			
Environment	Working temp.	-20~+70℃ (Refer to output load derating curve)			
	Working humidity	20℃~90℃, RH non-condensing			
	Storage Temp & Humidity	-40℃~+85℃, 10%~95 %RH			
	Temp. coefficient	±0.03%/℃(0-50℃)			
	Vibration	Component:10-500Hz, 2G 10min./1cycle, 60min, each along X,Y,Z axes;Mounting:Compliance to IEC60068			
Safety & EMC	Safety standards	UL508, TUV EN60950-1 approved, NEC class 2 / LPS compliant(24V, 48V only)			
	Withstand Voltage	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
	Is olation resistance	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms/500VDC 25℃ 70%RH			
	EMI conduction	Compliance to EN55011,EN55022 (CISPR22), EN61204-3 Class B			
	Harmonic current	Compliance to EN61000-3-2,-3			
Others	EMS immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN55024, EN61000-6-2, EN61204-3, heavy industry level, criteria A			
	Mibf	299.2k hrs min, MIL-HDBK-217F(25℃)			
	Dimension	40x90x100mm(WxHxD)			
	Packing	0.33kg; 42pcs/14.8kg/0.82cuft			

Outline and dimension

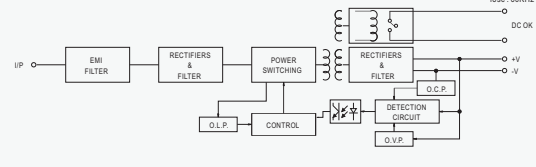
Mechanical Specification



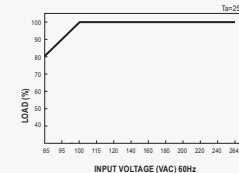
Derating Curve



Block Diagram



Output Derating VS Input Voltage



DC OK Relay Contact

Contact Close	When the output voltage reaches the adjusted output voltage.
Contact Open	When the output voltage drop below 90% output voltage.
Contact Ratings (max.)	30V/1A Resistive load

30W Single Output Industrial DIN Rail Power Supply (HDR-30)



HDR-30...

Feature

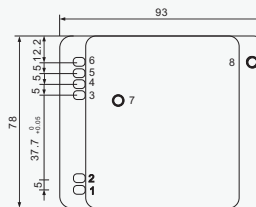
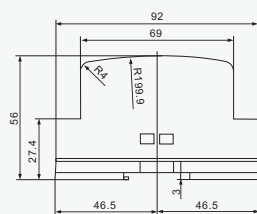
- Universal AC input/ full range
- Protections: Short circuit/ Over load/ Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-3.5/7.5 or 15
- Isolation class II
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty
- Dimensions: 78*93*56mm (W*H*D)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ and 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

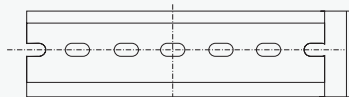
Model		HDR-30-5	HDR-30-12	HDR-30-15	HDR-30-24
Output	DC Voltage	5V	12V	15V	24V
	Voltage Tolerance	±2%	±1%	±1%	±1%
	Rated Current	3A	2A	2A	1.5A
	Current Range	0-3A	0-2A	0-2A	0-1.5A
	Rated Power	15W	24W	30W	36W
	Ripple & Noise	80mVp-p	120mVp-p	120mVp-p	150mVp-p
	DC Voltage Adj.Range	-5%, +10%	±10%	±10%	±10%
	Setup,Rise,Hold Time	100ms,30ms/230VAC 100ms,30ms/115VAC at full load			
Input	Voltage Range	85~264 VAC 47-63 Hz; selected by switch 120~370VDC			
	AC Current	0.88 A/115 V 0.48A/ 230 V			
	Efficiency	74%	81%	82%	83%
	Inrush Current	Cold start 15A/115V 30A/230V			
Protection	Over Load	105%~160% Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	Over Voltage	115%~135% Protection type: Shut down o/p voltage, re-power on to recover			
Environment	Working Temp & Humidity	-10°C~+60°C, 20%~90 %RH			
	Storage Temp & Humidity	-40°C~+85°C, 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min/1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC			
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC			
Standards	Safety Standard	Design refer to UL60950-1,TUV EN60950-1,EN50178			
	EMC Standard	Design refer to EN55011,EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11, ENV50204,EN55024,EN61000-6-2,EN61204-3			
Others	Weight	0.27Kg			
	Packing	48pcs/14Kg/1.02CUFT			

Outline and dimension



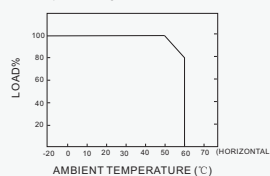
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/N	5, 6	-V
2	AC/L	7	LED
3, 4	+V	8	+VADJ.

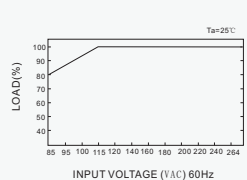


ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Output Derating



Output Derating VS Input Voltage



45W Single Output Industrial DIN Rail Power Supply (HDR-45)



HDR-45...

Feature

- Universal AC input/ full range
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-3.5/7.5 or 15
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at 100KHz
- 3 years warranty
- Dimensions: 78*97*67mm (L*W*H)

Notes:

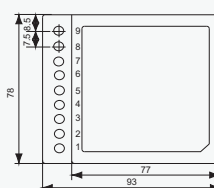
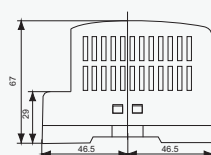
- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.

- Each output can within current range. But total output power can't exceed rated load

- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

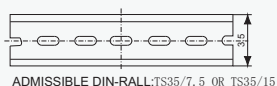
Model		HDR-45-5	HDR-45-12	HDR-45-15	HDR-45-24
Output	DC Voltage	5V	12V	15V	24V
	Voltage Tolerance	±2%	±1%	±1%	±1%
	Rated Current	5A	3.5A	2.8A	2A
	Current Range	0-5A	0-3.5A	0-2.8A	0-2A
	Rated Power	25W	42W	42W	48W
	Ripple & Noise	100mVp-p	200mVp-p	240mVp-p	480mVp-p
	DC Voltage Adj.Range	4.75-5.5V	10.8-13.2V	13.5-16.5V	21.6-26.4V
	Setup,Rise,Hold Time	800ms,60ms, 100ms/230VAC at full load			
Input	Voltage Range	85~264 VAC 47-63 Hz;selected by switch120~370VDC			
	AC Current	1.5 A/115 V 0.75A/ 230 V			
	Efficiency	72%	77%	77%	80%
	Inrush Current	Cold start 28A/115V 56A/230V			
	Leakage Current	<1mA/240VAC			
Protection	Over Load	105%~150% Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	Over Voltage	115%~135% Protection type: Shut down o/p voltage, re-power on to recover			
	Over Temperature	Tj 135 typically (U1) Detect on heat sink of power transistor, shut down o/p voltage, recovers automatically after temperature goes down			
Environment	Working Temp & Humidity	-10°C~+50°C, 20%~90 %RH			
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC			
Standards	Safety Standard	Design refer to UL508,TUV EN60950-1			
	EMC Standard	Design refer to EN55011,EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11,ENV50204, EN55024,EN61000-6-2			
Others	Weight	0.31Kg			
	Packing	48pcs/16.1Kg/1.3CUFT			

Outline and dimension



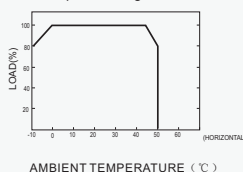
Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4, 5	DC OUTPUT -V	9	+V ADJ.
2	AC/N	6, 7	DC OUTPUT +V		
3	FG	8	LED		

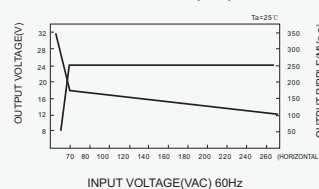


ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Output Derating



Static Characteristics(24V)



60W Single Output Industrial DIN Rail Power Supply (HDR-60)



HDR-60...

Feature

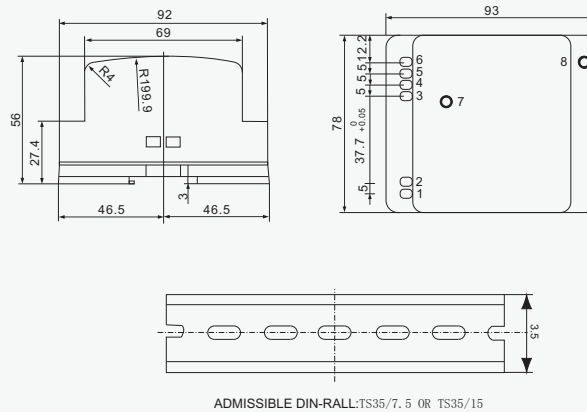
- Universal AC input/ full range
- Protections: Short circuit/ Over load/ Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-3.5/7.5 or 15
- Isolation class II
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty
- Dimensions: 78*93*56mm (W*H*D)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μf parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HDR-60-5	HDR-60-12	HDR-60-15	HDR-60-24
Output	DC Voltage	5V	12V	15V	24V
	Voltage Tolerance	±2%	±1%	±1%	±1%
	Rated Current	6.5A	4.5A	4A	2.5A
	Current Range	0-6.5A	0-4.5A	0-4A	0-2.5A
	Rated Power	32.5W	54W	60W	60W
	Ripple & Noise	80mVp-p	120mVp-p	120mVp-p	150mVp-p
	DC Voltage Adj.Range	-5%, +10%	-8%, +10%	±10%	±10%
	Setup,Rise,Hold Time	100ms,30ms/230VAC at full load 200ms,30ms/115VAC at full load			
	Hoid time	100ms/230VAC 23ms/115VAC at full load			
Input	Voltage Range	88~264 VAC 47-63 Hz; selected by switch 124~370VDC			
	AC Current	1.2A/115 V 0.8A/ 230 V			
	Efficiency	76%	82%	83%	81%
	Inrush Current	Cold start 20A/115V 40A/230V			
Protection	Over Load	105%~160% Protection type: Constant current limiting, recovers automatically after fault condition is removed			
	Over Voltage	115%~135% Protection type: Shut down o/p voltage, re-power on to recover			
Environment	Working Temp & Humidity	-20°C~+60°C, 20%~90 %RH			
	Storage Temp & Humidity	-40°C~+85°C, 10%~95 %RH			
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes			
Safety	Withstand Voltage	I/P-O/P: 3KVAC			
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC			
Standards	Safety Standard	Design refer to UL60950-1,TUV EN60950-1,EN50178			
	EMC Standard	Design refer to EN55011,EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11,ENV50204,EN55024,EN61000-6-2, EN61204-3			
Others	Weight	0.3Kg			
	Packing	48pcs/15.4Kg/1.02CUFT			

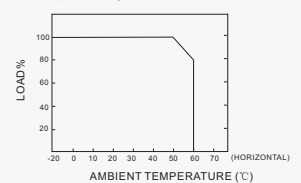
Outline and dimension



Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/N	5, 6	-V
2	AC/L	7	LED
3, 4	+V	8	+V ADJ.

Output Derating



120W Single Output
Industrial DIN Rail
Power Supply (HDR-120)



HDR-120...

Feature

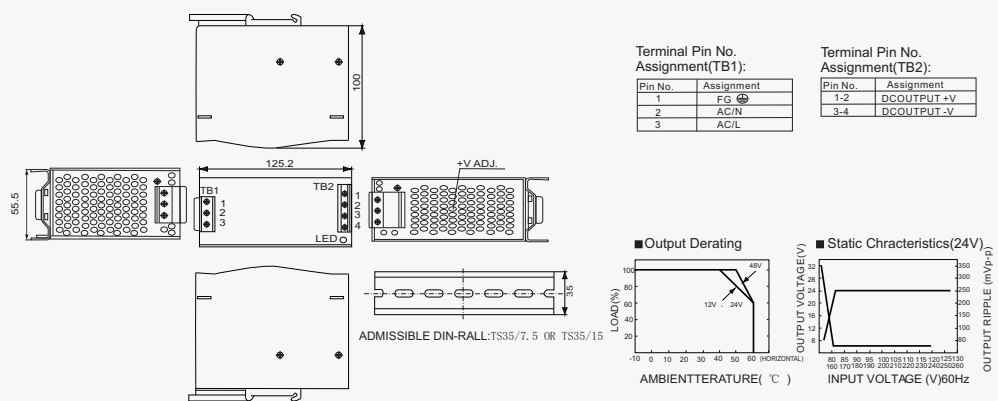
- Universal AC input / full range
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-3.5/7.5 or 15
- LED indicator for power on
- 100% full load burn-in test
- Fixed switch frequency at 55KHz
- 3 years warranty
- Dimensions: 65.5*125.2*100mm (W*H*D)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HDR-120-12	HDR-120-24	HDR-120-48
Output	DC Voltage	12V	24V	48V
	Voltage Tolerance	±2%	±1%	±1%
	Rated Current	10A	5A	2.5A
	Current Range	0-10A	0-5A	0-2.5A
	Rated Power	120W	120W	120W
	Ripple & Noise	80mVp-p	80mVp-p	100mVp-p
	DC Voltage Adj.Range	12-14V	24-28V	48-53V
	Setup,Rise Time	500ms,70ms/230VAC at full load 500ms,70ms/115VAC at full load		
Input	Hoid time	36ms/230VAC 32ms/115VAC at full load		
	Voltage Range	88~132 VAC/176~264VAC 47-63 Hz;selected by 248~370VDC		
	AC Current	2.6 A/115 V 1.6A/ 230 V		
	Efficiency	80%	84%	85%
Protection	Inrush Current	Cold start 20A/115V 40A/230V		
	Over Load	105%~150% Protection type: Constant current limiting, recovers automatically after fault condition is removed		
	Over Voltage	120%~135% Protection type: Shut down o/p voltage, re-power on to recover		
	Over Temperature	85°C±5°C(TSW1)	90°C±5°C(TSW1)	90°C±5°C(TSW1)
Environment	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down			
	Working Temp & Humidity	-10°C~+60°C, 20%~90 %RH		
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH		
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes		
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC		
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC		
Standards	Safety Standard	Design refer to UL508,UL60950-1, TUV EN60950-1		
	EMC Standard	Design refer to EN55011,EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11, ENV50204,EN55024, EN61000-6-2(EN50082-2)		
Others	Weight	0.79Kg		
	Packing	20pcs/16.5Kg/1.1CUFT		

Outline and dimension



240W Single Output Industrial DIN Rail Power Supply (HDR-240)



HDR-240...

Feature

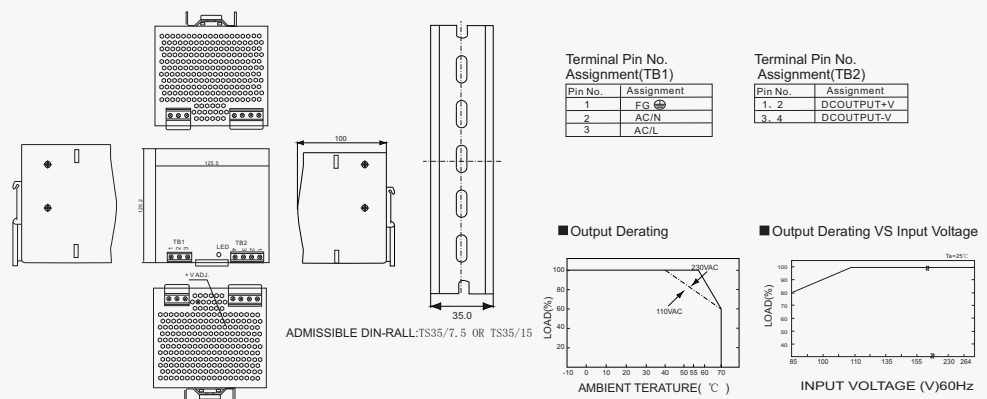
- Universal AC input/ full range
- Built-in active PFC function
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-3.5/7.5 or 15
- LED indicator for power on
- 100% full load burn-in test
- Fixed switching frequency at 100KHz
- 3 years warranty
- Dimensions: 125.5*125.2*100mm (W*H*D)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HDR-240-24	HDR-240-48
Output	DC Voltage	24V	48V
	Voltage Tolerance	±1%	±1%
	Rated Current	10A	5A
	Current Range	0-10A	0-5A
	Rated Power	240W	240W
	Ripple & Noise	80mVp-p	150mVp-p
	DC Voltage Adj.Range	24-28V	48-53V
	Setup,Rise,Hold Time	800ms, 40ms/230VAC at full load 800ms, 40ms/115VAC at full load	
Input	Voltage Range	88~264VAC 47-63 Hz, selected by switch 120~370VDC	
	AC Current	2.8A/115 V 1.4A/ 230V	
	Efficiency	84%	85%
	Inrush Current	Cold start 27A/115V 45A/230V	
Protection	Over Load	105%~150% Protection type: Constant current limiting, recovers automatically after fault condition is removed	
	Over Voltage	30-36V	54-60V
	Over Temperature	100°C ±5°C(TSW1) Protection type: Shut down o/p voltage, recovers automatically after temperature goes down	
Environment	Working Temp & Humidity	-10°C~+70°C, 20%~90 %RH	
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH	
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes	
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC	
Standards	Safety Standard	Design refer to UL508,UL60950-1, TUV EN60950-1	
	EMC Standard	EN55011,EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11,ENV50204,EN55024,EN61000-6-2(EN50082-2)	
Others	Weight	1.2Kg	
	Packing	12pcs/15.5Kg/1.2CUFT	

Outline and dimension



480W Single Output
Industrial DIN Rail
Power Supply (HDR-480)



HDR-480...

Feature

- High efficiency(89%), low dissipation
- Built-in passive PFC function compliance to EN61000-3-2
- Protections: Short circuit/ Over load/ Over voltage/ Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- LED indicator for power on
- 100% full load burn-in test
- EN61000-6-2(EN50082-2) industrial immunity level
- 3 years warranty
- Dimensions: 227*125.2*100mm(W*H*D)

Notes:

- All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1μ & 47μF parallel capacitor.
- Each output can within current range. But total output power can't exceed rated load
- The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Model		HDR-480-24	HDR-480-48
Output	DC Voltage	24V	48V
	Voltage Tolerance	±1%	±1%
	Rated Current	20A	10A
	Current Range	0-20A	0-10A
	Rated Power	480W	480W
	Ripple & Noise	120mVp-p	120mVp-p
	DC Voltage Adj.Range	24-28V	48-53V
	Setup,Rise Time	1200ms,40ms/230VAC at full load	
Input	Hold time	16ms/230VAC	
	Voltage Range	180~264VAC 47-63 Hz;250~370VDC	
	AC Current	4A/ 230 V	
	Efficiency	89%	89%
Protection	Inrush Current	Cold start 40A/230V	
	Over Load	105%~150% Protection type: Constant current limiting, recovers automatically after fault condition is removed	
	Over Voltage	30-36V	54-60V
	Over Temperature	100°C±5°C(TSW) Protection type: Shut down o/p voltage, re-power on to recover	
Environment	Working Temp & Humidity	-20°C~+70°C, 20%~90 %RH	
	Storage Temp & Humidity	-20°C~+85°C, 10%~95 %RH	
	Vibration	10~500Hz, 2G 10min./1cycle, period for 60min, each along X, Y, Z axes	
Safety	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC	
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms / 500VDC	
Standards	Safety Standard	Design refer to UL508,UL60950-1 TUV EN60950-1	
	EMC Standard	EN55022,EN61000-3-2,-3,EN61000-4-2,3,4,5,6,8,11,ENV50204,EN55024,EN61000-6-2(EN50082-2)	
Others	Weight	2.4Kg	
	Packing	6pcs/15Kg/1.75CUFT	

Outline and dimension

