

HS-600 Series

Single output switching power supply module

12VDC 50A, 24VDC 25A, 48VDC 12.5A



- AC input voltage range selected by switch
- Small volume, low profile, high efficiency
- Protections: short circuit/over-load, Over-voltage/over-temperature
- Built-in DC cooling fan
- LED indicator for power on
- 100% full load burn-in test
- 2 Years warranty

The HS-600 PSU's have a very high output wattage in a small and compact housing. The PSU is available in 12, 24 and 48 volts with 2 x 3 combined output connectors providing 50A, 25A or 12.5 Ampere. The unit is fully encased in an aluminium housing. The built-in fan provides the required airflow for higher output currents. Hick up mode, over voltage, over temperature and automatic recovery are standard features on this unit.

The high energy efficiency minimises heat and expands the life of the PSU.

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Specifications

Model		HS-600-12	HS-600-24	HS-600-48
Output	DC voltage	12V	24V	48V
	Voltage tolerance	±1%	±1%	±1%
	Rated current	50A	25A	12.5A
	Current range	0-50A	0-25A	0-12.5A
	Rated power	600w	600W	600W
	Ripple & noise	150mvp-p	180mvp-p	200mvp-p
	DC voltage ADJ. range	-9%~ +10%	±10%	±10%
	Setup rise, hold up time	200ms, 30ms, 36ms/230VAC		
Input	Voltage range	90~132VAC , 180~264VAC, 47~63Hz (Selected by switch), 255 ~373VDC		
	AC current	1.2A/110VAC , 0.65A/220VAC		
	Efficiency	82%	84%	86%
	Inrush current	Cold start current 25A/115VAC , 50A/230VAC		
	Leakage current	< 3.5mA/240VAC		
Protection	Over-load	Rated output power 105%~135% start overload protection Protection type: cutoff output, recovery after restart power		
	Over-voltage	15.6 ~ 17.8V	30.6 ~ 33.2V	54.8 ~ 56.6V
Over Temperature	Rectifier temperature >85°C ±5% Start over temp protection			
	Protection mode: cutoff output, auto-recovery after temperature returns to normal			
Environment	Working temp, humidity	-20°C~+60°C , 20% ~90%RH		
	Storage temp, humidity	-20°C~+85°C , 10% ~95%RH non-condensing		
	Withstand vibration	10~500HZ , 5G 10min/1cycle , period for 60 minutes, each axis		
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 ohms/500VDC		
Standards	Safety standard	Complies with UL 62368-1, TUV 62368-1, EN 62368-1		
	EMC standard	Complies with EN55032 , CLASS A		
Others	Dimensions	238 x 124 x 65mm (L x W x H)		
	Weight/packing	1.5kg/12pcs/19kg/1.18CUFT		
	MTBF	160K hours min. MIL-HDBK-217F (25°C)		
Note	1) All parameters NOT specifically mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2) Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3) Tolerance: includes line regulation and load regulation.			

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Dycon leads the security and associated power supply markets, with UK design and manufacture of advanced power products, engineered to provide high quality, cost-effective solutions to meet current regulations and the specific needs of system integrators and end-users.

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