hurele Hengweipower

$HS-500W \\ \text{Series single output switching power supply} \\$



Features:

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



SPECIFI	CATION		211111	,			
	Model	HS-500-12	HS-500-24	HS-500-36	HS-500-48		
Output	DC voltage	12V	24V	36V	48V		
	Voltage tolerance	±2%	± 2%	± 2%	± 2%		
	Rated current	40A	20A	13.5A	10A		
	Current range	0~40A	0~20A	0~13.5A	0 ~ 10A		
	Rated power	480W	480W	486W	480W		
	Ripple&noise	150mVp-p	180mVp-p	240mVp-p	240mVp-p		
	DC voltage ADJ. range	± 10%	± 10%	± 10%	± 10%		
	Setup, rise, hold up time	600ms,20ms,24ms/230VAC,800ms,30ms,20ms/115VAC					
Input	Voltage range	90~132VAC/180~264VAC(selected by switch) 47~63Hz, 254~373VDC					
	AC current	10.5A/110V 5.5/230VAC					
	Efficiency	86%	87%	88%	89%		
	Inrush current	Cold start35A/110V,65A/230VAC					
	leakage current	< 3.5mA/240VAC					
Protection	Overload	Rated output power110% ~ 135%Start overload protection					
	Oventiad	Protection type: hiccup mode, auto-recovery after fault condition is removed					
	Over voltage	Rated output voltage115%~135% start over voltage protection					
		Protection type: hiccup mode, auto-recovery after fault condition is removed					
	Over temperature	≥55℃fan on,≤45℃fan off,≥85℃Start over temp protection					
		Protection type: hiccup mode, auto-recovery after temperature become normal					
	Working temp, humidity	$-20^\circ\text{C} \sim +60^\circ\text{C}; 20\% \sim 90\%\text{RH}(\text{Please refer to "derating curve"})$					
Environment	Storage temp, humidity	−25°C ~ +85°C;10% ~ 95%RH Non−condensing					
	Withstand vibration	10~500Hz, 2G 10min./1Cycle, Period for 60min, Each axes					
Qafat.	Withstand voltage	I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC					
Safety	Isolation resistance	I/P-O/P: I/P-FG,O/P-FG: 100M Ohms/500VDC					
Fit standard	Safety standard	Compliance to UL 62368-1,TUV 62368-1,EN 62368-1					
	EMC Standard	Compliance to EN 55032, CLASSA					
Others	Dimension	215*115*50mm (L*W*H)					
	Weight	1kg/24pcs/25kg/0.049m³/1.72CUFT					
	MTBF	180K hrs min. MIL−HDBK−217F(25℃)					

Dimension:215 × 115 × 50mm

Note: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.

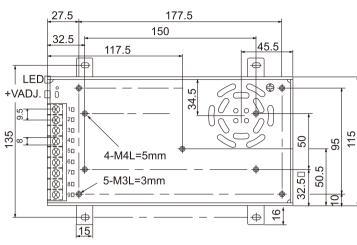
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor.

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



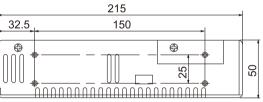
Mechanical specification

Unit:mm

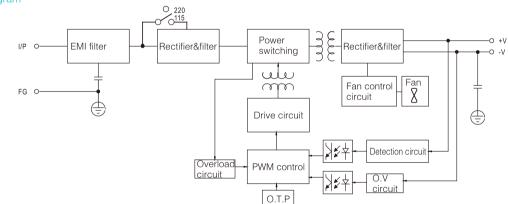


Terminal Pin No.Assignment

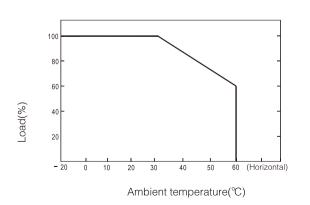
	Pin No.	Assignment	Pin No.	Assignment
ſ	9	AC/L	4~6	DC OUTPUT -V
ſ	8	AC/N	1~3	DC OUTPUT +V
	7	FG		



Block diagram



Derating curve



Static characteristic

