

Features:

- Switching type power supply
- 12V DC output voltage
- 8.5A rated output
- AC input range selectable by switch
- Protections: short circuit / overload / over voltage
- Natural air convection cooling

**Mount:**

- This unit is intended for mount inside a system
- For safety, ensure that unit is accessible only for qualified service personnel

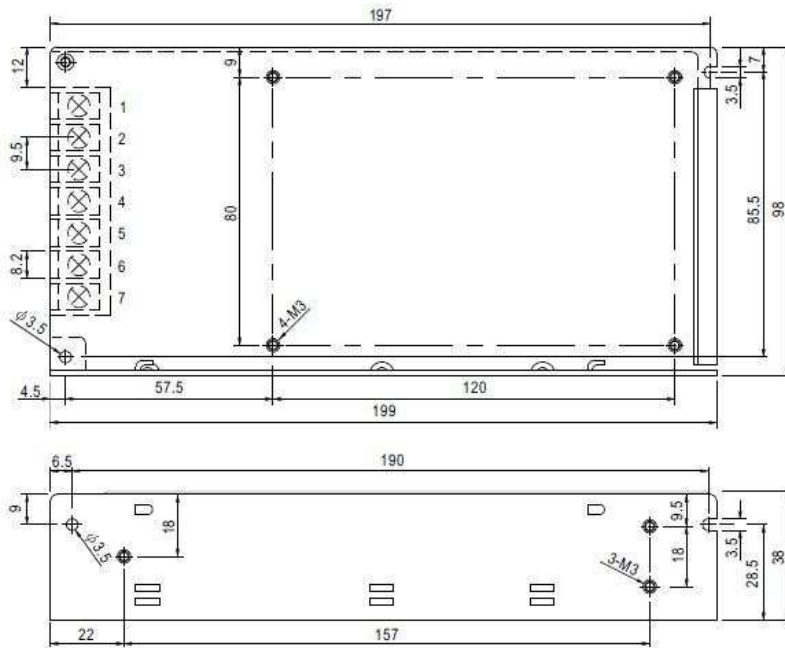
Specification:

Output	DC Voltage	12V (adjustable from 10.8 to 13.2V via potentiometer)
	Rated Current	8.5A
	Rated Power	102W
	Ripple & Noise (Note 2)	125mV p-p
	Voltage Tolerance (Note 3)	± 1%
	Setup, Rise Time	1000ms, 30ms at full load
	Hold Up Time	20ms at full load
Input	Voltage Range	88 ~ 132VAC / 176VAC ~ 264VAC selected by switch
	Frequency Range	47 ~ 63Hz
	Efficiency (Typ.)	80%
	AC Current (Typ.)	3.15A/115VAC / 1.5A/230VAC
	Leakage Current	<1mA / 240VAC
Protection	Overload	105 ~ 150% rated output power. Protection type: Hiccup mode, recovers automatically after fault condition is removed.
	Over Voltage	13.8 ~ 16.2V. Protection type: Hiccup mode, recovers automatically after fault condition is removed.
Environment	Working Ambient Temperature	-10 ~ +45°C (50°C for vertical mount)
	Working Humidity	20 ~ 90% RH non-condensing
	Storage Temperature, Humidity	-20 ~ +85°C, 10 ~ 95% RH
	Temperature Coefficient	±0.03%/C (0 ~ 50°C)
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes
Safety & EMC (Note 4)	Safety Standards	UL1012, UL60950-1, TUV EN60950-1, CCC GB4943 approved
	Withstand Voltage	I/P-O/P:3kVAC I/P-FG:1.5kVAC O/P-FG:0.5kVAC
	Isolation Resistance	I/P-OP, I/P-FG, O/P-FG:100MΩ / 500VDC / 25°C / 70% RH
	EMI Conduction & Radiation	Compliance to EN55022 (CISPR22) Class B
	Harmonic Current	Compliance to EN61000-3-2,-3
Other	MTBF	314900 h minimum MIL-HDBK-217F (25°C)
	Dimension	199mm x 98mm x 38mm (L x W x H)
Notes	<ol style="list-style-type: none"> 1. All parameters are measured at 230VAC input and 25°C ambient temperature unless noted otherwise. 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 set-up tolerance, line regulation and load regulation. 4. 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. 	

MPS-100W-12V DATA SHEET

Mechanical Specification

Unit:mm



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 \perp		

Block Diagram

fosc : 83KHz

