

■ Features :

- 4"x2" Compact size
- Universal AC input / Full range
- Built-in active PFC function
- High efficiency up to 93%
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- 100W free air convection, 150W with 20CFM forced air
- LED indicator for power on
- No load power consumption<0.5W
- Built-in 12V/0.3A auxiliary output
- 3 years warranty

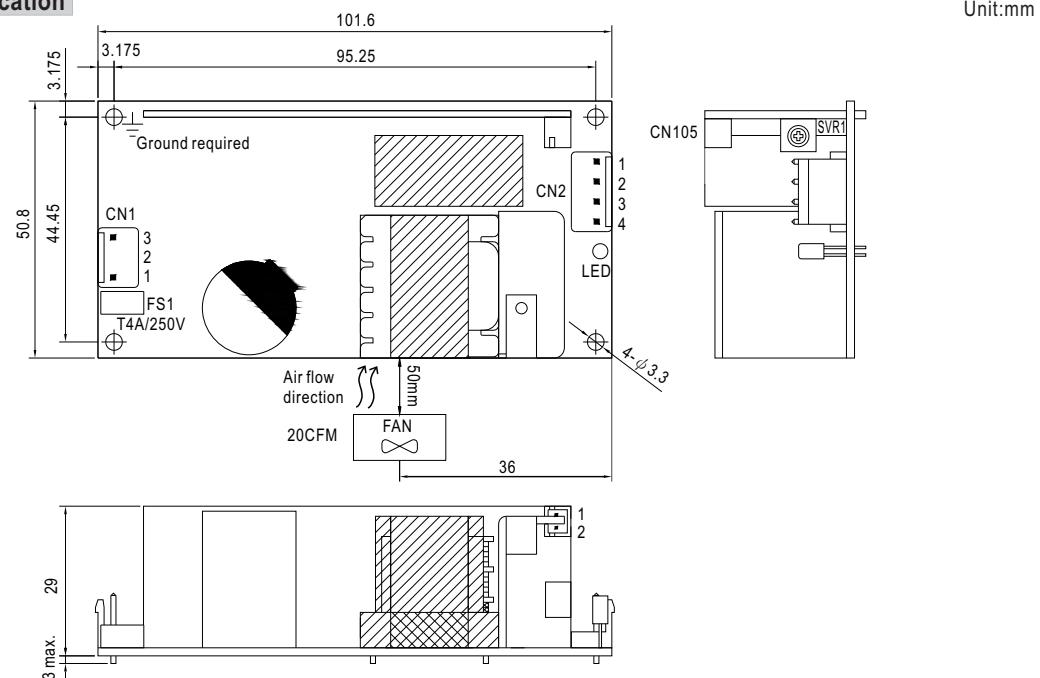
User's Manual



SPECIFICATION

MODEL	EPP-150-12	EPP-150-15	EPP-150-24	EPP-150-27	EPP-150-48					
OUTPUT	DC VOLTAGE	12V	15V	24V	27V					
	RATED CURRENT (convection)	8.4A	6.7A	4.2A	3.71A					
	RATED CURRENT (20CFM FAN)	12.5A	10A	6.25A	5.56A					
	CURRENT RANGE (convection)	0 ~ 8.4A	0 ~ 6.7A	0 ~ 4.2A	0 ~ 3.71A					
	CURRENT RANGE (20CFM FAN)	0 ~ 12.5A	0 ~ 10A	0 ~ 6.25A	0 ~ 5.56A					
	RATED POWER (convection)	100.8W	100.5W	100.8W	100.8W					
	RATED POWER (20CFM FAN)	150W	150W	150W	150W					
	RIPLPE & NOISE (max.) Note.2	130mVp-p	150mVp-p	240mVp-p	240mVp-p					
	VOLTAGE ADJ. RANGE	11.76 ~ 12.6V	14.7 ~ 15.75V	23.52 ~ 25.2V	26.46 ~ 28.35V					
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%					
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%					
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%					
INPUT	SETUP, RISE TIME	1000ms, 30ms/230VAC	2000ms, 30ms/115VAC at full load							
	HOLD UP TIME (Typ.)	16ms/230VAC	16ms/115VAC at full load							
PROTECTION	VOLTAGE RANGE Note.4	90 ~ 264VAC	127 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF>0.95/230VAC	PF>0.98/115VAC at full load							
	EFFICIENCY (Typ.)	91.5%	92%	93%	92%	92%				
	AC CURRENT (Typ.)	1.8A/115VAC	1A/230VAC							
	INRUSH CURRENT (Typ.)	COLD START 70A/230VAC								
	LEAKAGE CURRENT	<2mA/240VAC								
FUNCTION	OVER LOAD	105 ~ 145% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	13.2 ~ 15.6V	16.83 ~ 19.5V	27.7 ~ 31.5V	30.2 ~ 34.05V	51.3 ~ 62.7V				
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover								
ENVIRONMENT	AUXILIARY POWER(AUX)	12V@0.3A for driving a fan, tolerance ± 10% at main output 100% load								
SAFETY & EMC (Note 6)	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	± 0.03%/°C (0 ~ 45°C)								
	OPERATING ALTITUDE Note.5	2000 meters								
OTHERS	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC	I/P-FG:2KVAC	O/P-FG:0.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms	500VDC/ 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020								
NOTE	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, heavy industry level, criteria A, EAC TP TC 020								
	MTBF	207.1Khrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	101.6*50.8*29mm (L*W*H)								
	PACKING	0.2Kg; 72pcs/15.4Kg/0.82CUFT								
	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 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Derating may be needed under low input voltages. Please check the derating curve for more details. 5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (available on http://www.meanwell.com)									
	※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									

■ Mechanical Specification



AC Input Connector (CN1) : JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/N		

≡ : Grounding required

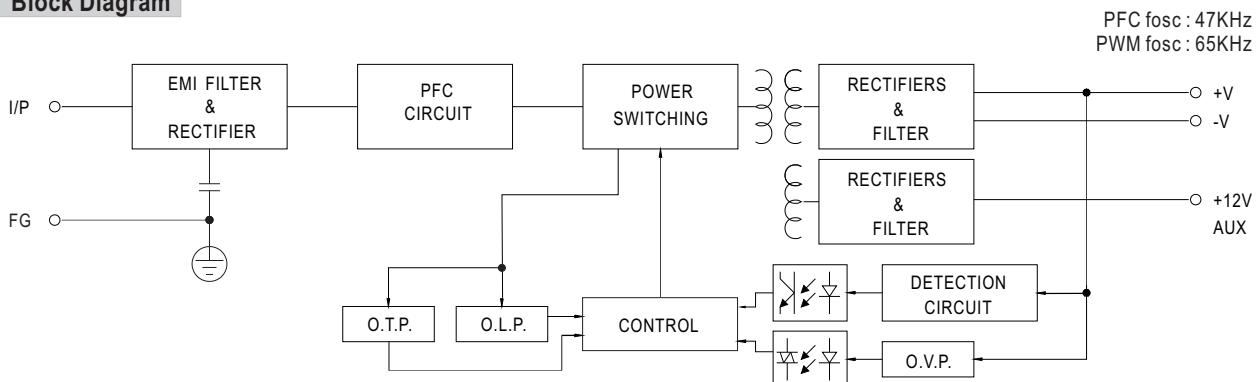
DC Output Connector (CN2) : JST B4P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	DC COM	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3,4	+V		

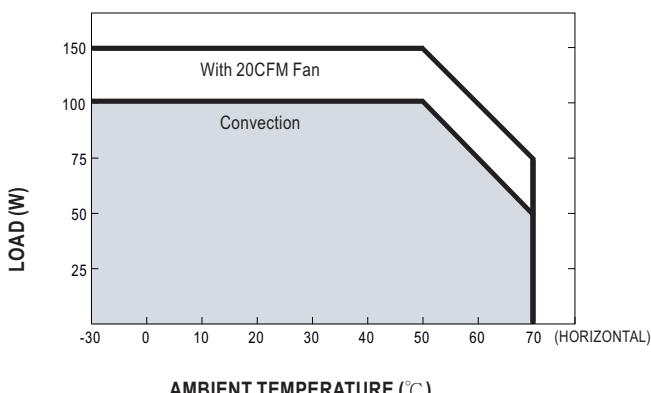
FAN Connector(CN105) : JST B2B-PH-K-S or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+12V	JST PHR-2 or equivalent	JST SPH-002T-P0.5S or equivalent
2	DC COM		

■ Block Diagram



■ Output Derating



■ Output Derating VS Input Voltage

