



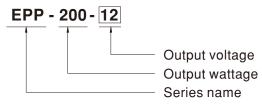
■ Features

- 4"×2" miniature size
- Universal AC input / Full range
- · Built-in active PFC function
- EMI Class B for both Class I (with FG) and Class II (without FG) configuration
- No load power consumption<0.5W
- High efficiency up to 94%
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection for 140W and 200W with 10CFM forced air
- Built-in 12V/0.5A FAN supply
- · LED indicator for power on
- 3 years warranty

Description

EPP-200 is a 200W highly reliable green PCB type power supply with a high power density (21.9W/in 3) on the 4" by 2" footprint. It accepts 80~264VAC input and offers various output voltages between 12V and 48V. The working efficiency is up to 94% and the extremely low no load power consumption is down below 0.5W. EPP-200 is able to be used for both Class I (with FG) and Class II (no FG) system design. EPP-200 is equipped with complete protection functions; it is complied with the international safety regulations such as TUV EN60950-1, UL60950-1 and IEC60950-1. EPP-200 series serves as a high price-to-performance power supply solution for various industrial applications.

■ Model Encoding





Applications

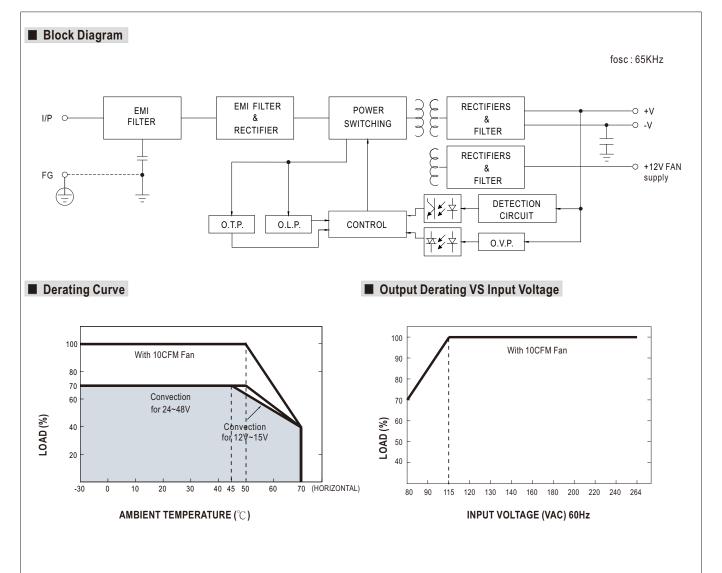
- Industrial automation machinery
- Industrial control system
- Mechanical and electrical equipment
- Electronic instruments, equipments or apparatus



SPECIFICATION

MODEL		EPP-200-12	EPP-200-15	EPP-200-24	EPP-200-27	EPP-200-48		
	DC VOLTAGE		12V	15V	24V	27V	48V	
	OUDDENT	10CFM	16.7A	13.4A	8.4A	7.5A	4.2A	
	CURRENT	Convection	11.7A	9.4A	5.9A	5.3A	3A	
	RATED	10CFM	200.4W	201W	201.6W	202.5W	201.6W	
	POWER	Convection	140.4W	141W	141.6W	143.1W	144W	
	RIPPLE & NOISE (max.) Note.2		100mVp-p	100mVp-p	150mVp-p	150mVp-p	200mVp-p	
OUTPUT	VOLTAGE ADJ. RANGE		11.4~12.6V	14.3~15.8V	22.8~25.2V	25.6 ~ 28.4V	45.6 ~50.4V	
	VOLTAGE TOLERANCE Note.3		±2.0%	±2.5%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME		500ms, 30ms/230VAC 500ms, 30ms/115VAC at full load					
	HOLD UP TIME (Typ.)		12ms/230VAC 12ms/115VAC at full load					
	VOLTAGE RANGE Note.4							
ĺ	FREQUENCY RANGE		47 ~ 63Hz					
	POWER FACTOR		PF>0.94/230VAC PF	>0.98/115VAC at full lo	ad			
NPUT	EFFICIENCY	(Typ.)	93%	93%	94%	94%	94%	
	AC CURRENT (Typ.)		1.8A/115VAC 1A	/230VAC	1			
	INRUSH CURRENT (Typ.)		COLD START 30A/115VAC 60A/230VAC					
	LEAKAGE CURRENT		<0.75mA/240VAC	00.11.0				
			110 ~ 140% rated output power					
	OVERLOAD		Protection type: Hiccup mode, recovers automatically after fault condition is removed					
POTENTION			13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	29.7 ~ 35V	52.8 ~ 62.4V	
PROTECTION	OVER VOLTA	GE				23.1 00 0	02.0 02.4V	
	OVER TEMPERATURE		Protection type: Shut down o/p voltage, re-power on to recover Protection type: Shut down o/p voltage, re-power on to recover					
FUNCTION		LINATURE						
FUNCTION FAN SUPPLY 12V@0.5A for driving a fan; tolerance +15% ~ -15% WORKING TEMP30 ~ +70°C (Refer to "Derating Curve")								
	WORKING H		20 ~ 90% RH non-condensing					
FNVIDONMENT								
ENVIRONMENT	STORAGE TEI		±0.03%/°C (0~50°C)					
		TOIENT						
	VIBRATION SAFETY STANDARDS		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
	WITHSTAND	- Comment of the comm						
SAFETY & EMC			I/P-O/P:3KVAC					
Note 5)	EMC EMISSION		I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
	EMC IMMUNI		Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3					
		11	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A					
OTHERS	MTBF		500.2Khrs min. MIL-HDBK-217F (25°C) 101.6*50.8*29mm (L*W*H)					
OTHERS	DIMENSION		,	•				
NOTE	 Ripple & r Tolerance Derating r The power mounting EMC dire 	ACKING 0.19Kg; 72pcs/14.7Kg/0.82CUFT 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. Derating may be needed under low input voltages. Please check the derating curve for more details. 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." (as available on http://www.meanwell.com)						

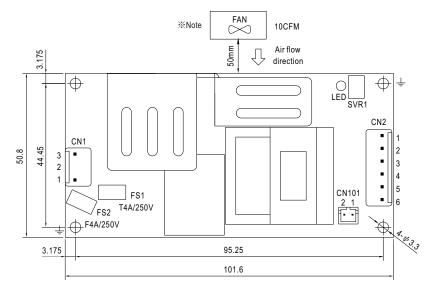


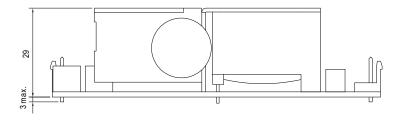




■ Mechanical Specification

Unit:mm





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

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

 \pm : Grounding required

DC Output Connector (CN2): JST B6P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,3	+V	JST VHR	JST SVH-21T-P1.1
4,5,6	-V	or equivalent	or equivalent

FAN Connector(CN101): JST B2B-PH-K-S or equivalent

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

%Note: 1. The FAN supply is designed to serve as the source of the additive external fan for the cooling of the power supply, enabling the full load delivery and assuring the best life span of the product. Please do not use this FAN supply to drive other devices.

2. EMI Class B for both conducted emission and radiated emission for the power supply, when configured into either Class $\, I \,$ (with FG) or Class $\, I \,$ (without FG) system.

■ Installation Manual

 $Please\ refer\ to: http://www.meanwell.com/manual.html$