



Features

- 4"×2" miniature size
- Universal AC input / Full range
- · Built-in active PFC function
- EMI Conduction for Class B Radiation for Class B with FG(Class I) and Class A without FG(Class II)
- 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
- Operating altitude up to 5000 meters
- 3 years warranty

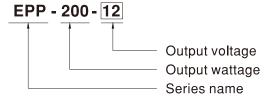
Applications

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

Description

EPP-200 is a 200W highly reliable green PCB type power supply with a high power density (21.9W/in) on the 4" by 2" footprint. It accepts $80\sim264$ VAC 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

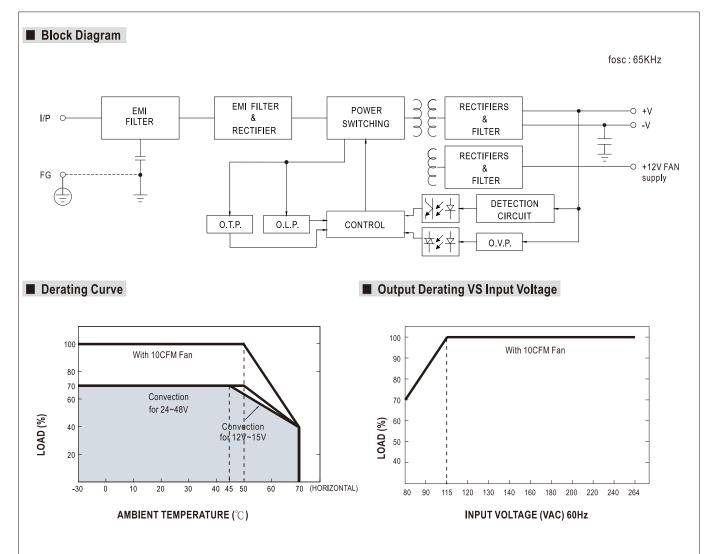




SPECIFICATION

MODEL		EPP-200-12	EPP-200-15	EPP-200-24	EPP-200-27	EPP-200-48		
	DC VOLTAGE		12V	15V	24V	27V	48V	
		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							
	FREQUENCY RANGE		47 ~ 63Hz					
	POWER FACTOR		PF>0.94/230VAC PF	>0.98/115VAC at full I	oad			
INPUT	EFFICIENCY	(Typ.)	93%	93%	94%	94%	94%	
	AC CURREN		1.8A/115VAC 1A	1/230VAC				
	INRUSH CURRENT (Typ.)		COLD START 30A/115VAC 60A/230VAC					
	LEAKAGE CURRENT		<0.75mA / 240VAC					
			110 ~ 140% rated output power					
	OVERLOAD		Protection type: Hiccup mode, recovers automatically after fault condition is removed					
PROTECTION	OVER VOLTAGE		13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	29.7 ~ 35V	52.8 ~ 62.4V	
11012011011			Protection type : Shut down o/p voltage, re-power on to recover					
	OVER TEMPERATURE		Protection type : Shut down o/p voltage, re-power on to recover					
FUNCTION	FAN SUPPLY		12V@0.5A for driving a fan ; tolerance +15% ~ -15%					
	WORKING TEMP.		-30 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY		20 ~ 90% RH non-condensing					
ENI/IDANIAENT	STORAGE TE	MP., HUMIDITY	TY -40 ~ +85°C, 10 ~ 95% RH					
ENVIRONMENT	TEMP. COEF	FICIENT	±0.03%/°C (0 ~ 50°C)					
	OPERATING ALTITUDE Note.6							
	VIBRATION		10 ~ 500Hz, 2G 10mir	n./1cycle, 60min. each	along X, Y, Z axes			
	SAFETY STANDARDS		UL60950-1, TUV EN60950-1, IEC60950-1, EAC TP TC 004 approved					
SAFETY &	WITHSTAND	VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
EMC	ISOLATION	RESISTANCE	I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
(Note 5)	EMC EMISSION	NC	Compliance to EN55032 (CISPR32) Conduction for Class B Radiation for Class B with FG(Class I) and Class A without FG(Class II), EN61000-3-2,-3, EAC TP TC 020					
	EMC IMMUNI	TY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A, EAC TP TC 020					
	MTBF		500.2Khrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION		101.6*50.8*29mm (L	11.6*50.8*29mm (L*W*H)				
	PACKING		0.19Kg; 72pcs/14.7Kg/0.82CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 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 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) 6. 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).							
	=000					F:	le Name:EPP-200-SPEC 2018-0	

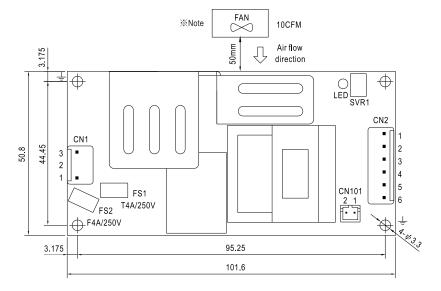


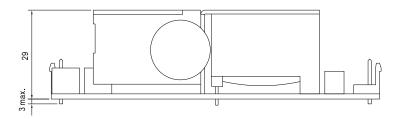




■ Mechanical Specification

Unit:mm





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

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	ICTVIID	ICT CVIII DAT DA A
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	AC/N		

 $\stackrel{\perp}{=}$: 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 Conduction for Class B Radiation for Class B with FG(Class I) and Class A without FG(Class II).

■ Installation Manual

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