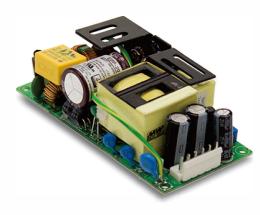


200W Single Output with PFC Function

## EPP-200 series



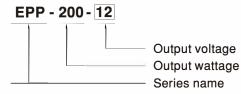
### Features

- 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</li>
- · 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

#### Description

EPP-200 is a 200W highly reliable green PCB type power supply with a high power density (21.9W/in<sup>3</sup>) 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

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#### SPECIFICATION

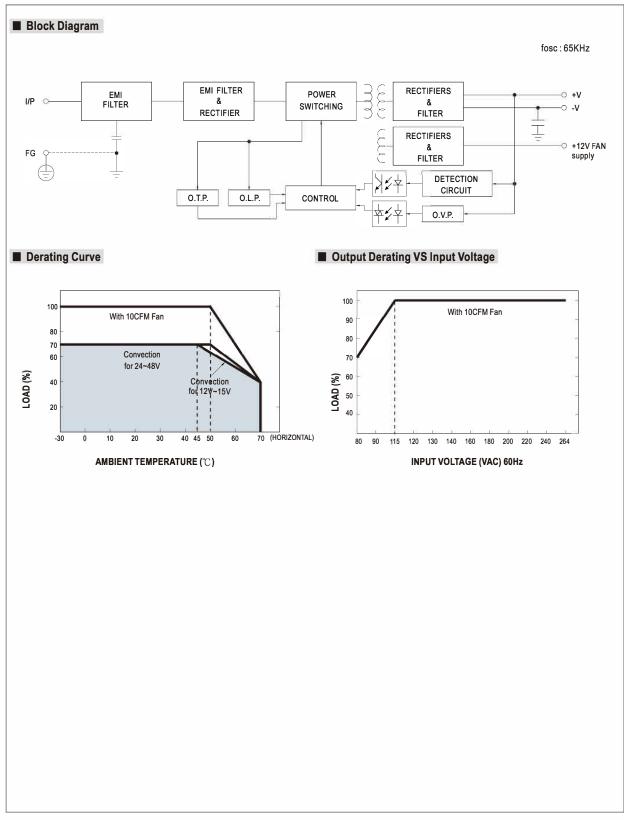
MODEL		EPP-200-12	EPP-200-15	EPP-200-24	EPP-200-27	EPP-200-48
DC VOLTAGE		12V	15V	24V	27V	48V
	10CFM	16.7A	13.4A	8.4A	7.5A	4.2A
URRENT	Convection	11.7A	9.4A	5.9A	5.3A	3A
RATED	10CFM	200.4W	201W	201.6W	202.5W	201.6W
OWER	Convection	140.4W	141W	141.6W	143.1W	144W
	SE (max.) Note.2		100mVp-p	150mVp-p	150mVp-p	200mVp-p
VOLTAGE ADJ. RANGE VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note3		11.4~12.6V	14.3~15.8V	22.8~25.2V	25.6~28.4V	45.6~50.4V
			±2.5%	±1.0%	±1.0%	±1.0%
		±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			1.0 %	1.070
HOLD UP TIME (Typ.)		500ms, 30ms/230VAC         500ms, 30ms/115VAC at full load           12ms/230VAC         12ms/115VAC at full load				
VOLTAGE RANGE Note.4						
FREQUENCY RANGE		47 ~ 63Hz PF>0.94/230VAC PF>0.98/115VAC at full load				
POWER FACTOR INPUT EFFICIENCY (Typ.)						
FFICIENCY		93%	93%	94%	94%	94%
AC CURRENT (Typ.)		1.8A/115VAC 1A/230VAC				
NRUSH CUR		COLD START 30A/115VAC 60A/230VAC				
EAKAGE CU	JRRENT	<0.75mA/240VAC				
OVERLOAD		110 ~ 140% rated output power				
		Protection type : Hiccup mode, recovers automatically after fault condition is removed				
		13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	29.7 ~ 35V	52.8 ~ 62.4V
JVER VULIA	GE	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				
AN SUPPLY		12V@0.5A for driving a fan ; tolerance +15% ~ -15%				
WORKING TEMP.		-30 ~ +70 $^\circ \rm C$ (Refer to "Derating Curve")				
VORKING HL	UMIDITY	20 ~ 90% RH non-condensing				
STORAGE TEN	MP., HUMIDITY	′ -40 ~ +85°C, 10 ~ 95% RH				
TEMP. COEFF	FICIENT	±0.03%/°C (0~50°C)				
PERATING ALTITUDE Note.6 5000 meters						
/IBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
SAFETY STA	NDARDS	UL60950-1, TUV EN60950-1, IEC60950-1, EAC TP TC 004 approved				
WITHSTAND	VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
		I/P-O/P, I/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH				
EMC EMISSIC	ON	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020				
	ТҮ	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A, EAC TP TC 020				
ITBF		500.2Khrs min. MIL-HDBK-217F (25℃)				
DIMENSION 101.6*50.8*29mm		101.6*50.8*29mm (L*	L*W*H)			
PACKING		0.19Kg; 72pcs/14.7Kg/0.82CUFT				
<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uf &amp; 47uf parallel capacitor</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltages. Please check the derating curve for more details.</li> <li>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 meet 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)</li> <li>The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude highe</li> </ol>						
5. TI n E (a 6. TI	he powe nounting MC dire as availa he ambi	he power supply is con nounting the unit on a MC directives. For gui as available on http://w	he power supply is considered a component nounting the unit on a 360mm*360mm metal MC directives. For guidance on how to perfor as available on http://www.meanwell.com) he ambient temperature derating of 3.5°C/10	he power supply is considered a component which will be installed nounting the unit on a 360mm*360mm metal plate with 1mm of thic MC directives. For guidance on how to perform these EMC tests, as available on http://www.meanwell.com) he ambient temperature derating of 3.5°C/1000m with fanless mod	he power supply is considered a component which will be installed into a final equipmennounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment $MC$ directives. For guidance on how to perform these EMC tests, please refer to "EMI to a vailable on http://www.meanwell.com) he ambient temperature derating of $3.5^{\circ}C/1000m$ with fanless models and of $5^{\circ}C/1000m$	he power supply is considered a component which will be installed into a final equipment. All the EMC tests are nounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-conf EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component por as available on http://www.meanwell.com) he ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for op

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