



EFO-PS500PGF-xx_EN

FEATURES AND BENEFITS

- Universal AC input:/Full range: 90~264Vac
- Withstand 300Vac Surge input for 5seconds
- Slim Low profile, High 31mm
- Protection function: short circuit/over loading/over voltage
- 130% Peak load capacity capacity (500mS500mS)
- Built in active PFC function
- LED indicator for power on
- · Fan less design, natural air cooling
- Wide operating range: 4040°C~70 70°C
- Half filled glue able to adapt to more demanding environments (Environment with high dust and humidity)
- High Efficiency (Typical:94%), and High Reliability
- 100% full load burn in test
- 3 years warranty

PRODUCT SPECIFICATIONS

Weight 870g (Typ.)	
Case Material Metal (AL5052, SGCC)	
Cooling Method Free air flow	

SELECTION GUIDE

Certification	Part No.*	Output Power (W)	and Current (Vo/Io)	Range ADJ (V)	Efficiency at 230VAC (%) Typ
	EFO-500PGF-12	500	12V/41.7A	11.4-12.6	94
	EFO-500PGF-24	500	24V/20.8A	22.8V-25.2V	94.5
	EFO-500PGF-36	500	36V/13.9A	34.2V-37.8V	95
	EFO-500PGF-48	500	48V/10.45A	45.6V-50.4V	95

Note: The product picture is for reference only. For details, please refer to the actual product.





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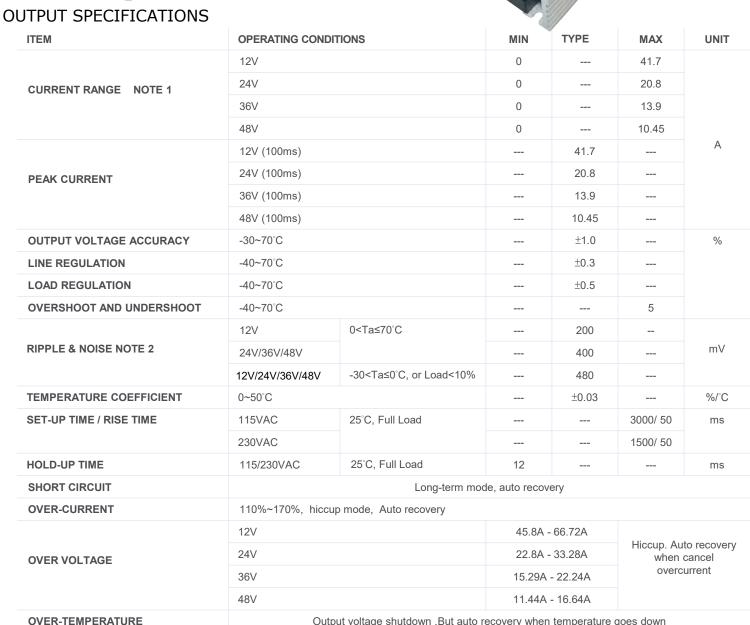
INPUT SPECIFICATIONS

ITEM	OPERATING CO	OPERATING CONDITIONS			MAX	UNIT
INPUT VOLTAGE RANGE	AC input	AC input			264	VAC
INFOT VOLTAGE NAME	DC input	DC input			370	VDC
NOMINAL INPUT VOLTAGE	AC input		100		240	VAC
NOMINAL IN OT VOLTAGE	DC input	DC input			339	VDC
SURGE VOLTAGE	5S			300		VAC
INPUT VOLTAGE FREQUENCY			47		63	Hz
INPUT CURRENT	115VAC				4.85	А
INFOT CORRENT	230VAC	25°C, Full Load			2.6	
INRUSH CURRENT	115VAC	25°C, Cold start		30		
INCOST CONNENT	230VAC	25°C, Cold start		60		
POWER FACTOR	115VAC	5VAC Full load	0.98			
POWER FACTOR	230VAC	Full load	0.95			
	12V			94.5		%
EFFICIENCY	24V	25°C (230Vac)		95		
	34V	. ,		95		





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Output voltage shutdown ,But auto recovery when temperature goes down Note: 1.All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature;

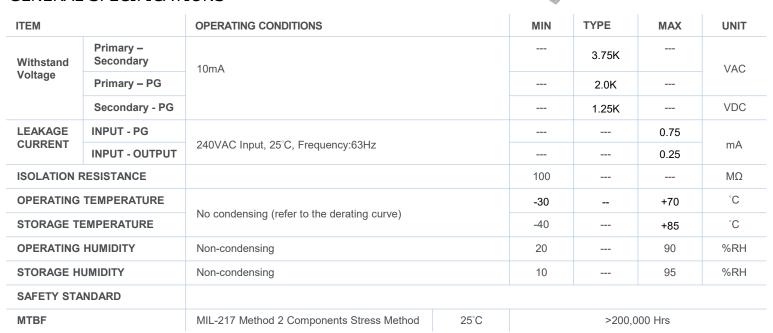
2.Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 10uF parallel capacitor.





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GENERAL SPECIFICATIONS



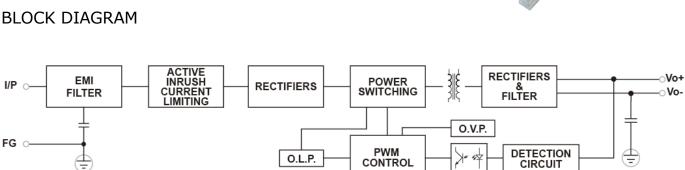
ELECTROMAGNETIC COMPATIBILITY (EMC)

	EMI Conduction & Radiation	EN55032 CLASS B (450mm*450mm*3mm Iron Plate)		
EMISSIONS	Harmonic current	EN61000-3-2 CLASS A		
	ESD	EN61000-4-2 Level 4		
	RS	EN61000-4-3 Level 2		
	EFT	EN61000-4-4 Level 3	Oritoria A	
IMMUNITY	Surge	EN61000-4-5 Level 4	Criteria A	
	CS	EN61000-4-6 Level 2		
	PFMF	EN61000-4-8 Level 4		
	Voltage dip, short interruption and voltage variation	EN61000-4-11	Criteria B or Criteria C	

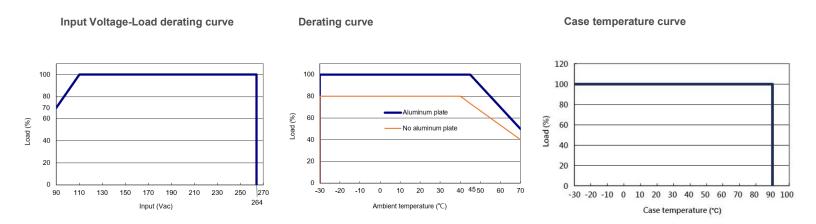




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PRODUCT CHARACTERISTIC CURVE



Note: 1. With an AC input voltage between 85-100VAC and a DC input between 120-140VDC the output power must be derated as per the temperature derating curves;

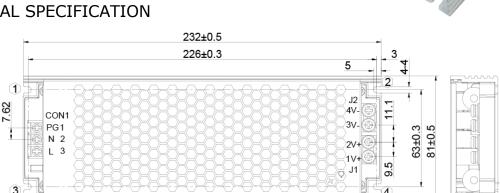
^{2.} This product is suitable for applications using natural air cooling. Applications in a closed environment may impact the derating, efficiency, and life of the product.





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MECHANICAL SPECIFICATION





		Mounting Tag Number	Screw Type	Lmax	Mounting Torque (max)
Bottom Mounting	Fixing by screws	1-4	М3	/	6.5Kgf.cm (max)

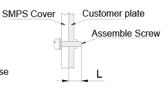
Remarks: 1.For safety purpose, the length of screw inside the power supply case shall comply with the above table (refer the right drawing)

1. Instruction of the AC Input Connectors

	Part number	Input	Connector Specification	
	1	PG	Pin spacing 7.62 Terminal	
CON1	2	AC (N)	block/ 3PinConnector/	
	3	AC (L)	-40°C~105°C/94V-0	

2. Instruction of the DC Output Connectors

	Part number	Connector Specification	Output marks and specifications
J1	1	19*11*6mm/ 2PIN/90~/M4	V+
01	2	Brass/ Tin-plating	V+
J2	3	19*11*6mm/ 2PIN/ 90~/M4 / Brass/ Tin-plating	V-
02	4		V-



Notice:

- 1. Dimensional Unit:mm
- 2. Unmarked Tolerance is GB/T 1804-m
- 3. Choose the best installation method.





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ALUMINUM PLATE MECHANICAL SPECIFICATION

In order to meet the requirements of the derating curve, the product must be installed on an aluminum plate. It is recommended that the size of the aluminum plate be as shown in the following figure. In order to optimize heat dissipation performance, the surface of the aluminum plate must be smooth (or coated with heat dissipation oil), and the product must be installed in the center position of the aluminum plate and locked.

