



EFO-PS200UP19-4.5

FEATURES AND BENEFITS

- AC input: 90VAC ~ 264VAC
- Output protections: OLP/SCP/OVP/OTP
- Wide operating ambient temperature (-40°C~65°C)
- · No fan suitable for quiet environment
- 100% full load burn-in test
- · High Efficiency, and High Reliability
- 3 years warranty

Part No	EFO-PS200UP19-4.5
Output Power (W)	200
Output Voltage Adjustable Range (V)	
Nominal Output Voltage And Current (Vo/Io)	4.5V/40A
Efficiency At 230VAC (%) Typ.	91
Dimensions	150.00 x 55.00 x 19.00 mm
Weight	225g
Case Material	Metal (AL5052, SGCC)
Cooling Method	Free air convection (with fixed to aluminum heat-sink of 300mm*300mm*3mm)
Certification	UL/CE

INPUT SPECIFICATIONS

ITEM	OPERATING CO	OPERATING CONDITIONS		TYPE	MAX	UNIT	
INPUT VOLTAGE RANGE	AC input	AC input			264	VAC	
INPUT VOLTAGE FREQUENCY					63	Hz	
INPUT CURRENT					2.5		
INRUSH CURRENT	220VAC	Cold start		80		А	
POWER FACTOR	220VAC	Full load	0.95				
STANDBY POWER	115VAC	Load 40A		91			
EFFICIENCY	230VAC	Load 40A		88		%	





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ITEM	OPERATING CONDITIONS		MIN	TYPE	MAX	UNIT
DC OUTPUT				4.5		
OUTPUT PRE SET VOLTAGE			4.365		4.635	V
RATED CURRENT	with fixed to aluminum heat-sink of 300mm*300mm*3mm			40		
CURRENT RANGE NOTE 1			0		40	А
OUTPUT VOLTAGE ACCURACY				±3.0		%
LINE REGULATION				±0.5		%
LOAD REGULATION				±2		%
OVERSHOOT AND UNDERSHOOT					5	mV
RIPPLE & NOISE NOTE 2	0~65°C				300	mV
TEMPERATURE COEFFICIENT				±0.03		%/°C
SET-UP TIME	220VAC	Full Load	0			S
HOLD-UP TIME	220VAC	80% Load	5			ms
CAP. LOAD					5000	ms
OVER POWER	110VAC ~ 264VAC 184.8W~273W, Hiccup		iccup mode	mode, auto recovery		
OVER-CURRENT	110VAC ~ 264VAC 44A~60A, Hicc		ccup mode, auto recovery			
OVER-VOLTAGE	4.5V~6.5V, Hiccup mode, auto recovery					
SHORTED CIRCUIT	Long-term mode, auto recovery					
OVER TEMPERATURE	105°C±5°C (detect on PFC inductance); shut down, auto recovery after the temperature goes down			s 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 & 47uF parallel capacitor.





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ITEM OPERATING CONDITION		3	MIN	TYPE	MAX	UNIT	
WITHSTAND	PRIMARY- SECONDARY				3.0K		VAC
VOLTAGE	PRIMARY-PG	10mA			1.5K		VAC
SECONDARY-PG					0.5K		VDC
LEAKAGE	INPUT-PG	264VAC Input				3.5	mA
CURRENT INPUT - OUTPUT		2047/10 111-put				0.25	mA
ISOLATION RESISTANCE		10ΜΩ					
OPERATING TEMPERATURE		No condensing (refer to the derating curve)		-40		+85	°C
STORAGE TEMPERATURE No co		No condensing (refer to the derating curve)		-40		+85	°C
OPERATING HUMIDITY		Non-condensing		20		90	%RH
STORAGE HUMIDITY		Non-condensing		10		95	%RH
SAFETY STANDARD		GB9493; EN60950					
MTBF		MIL-HDBK-217F 25°C, Full load		100,000 Hrs			

ELECTROMAGNETIC COMPATIBILITY (EMC)

EMISSIONS	EMI Conduction & Radiation	EN55022 CLASS A	
	Harmonic current	EN61000-3-2 CLASS D	
IMMUNITY	ESD	EN61000-4-2	
	RS	EN61000-4-3	
	EFT	EN61000-4-4	
	Surge	EN61000-4-5	EN55024, light industry level ,criteria B
	CS	EN61000-4-6	
	PFMF	EN61000-4-8	
	Voltage dip, short interruption and voltage variation	EN61000-4-11	criteria C

Note: *The SPS is considered a component which will be installed into final equipment. We cannot guarantee that the final equipment will meet EMC directives. Final product manufactures must be re-confirm that their product meets EMC directives.

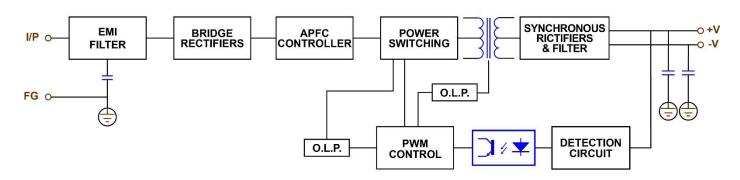
If the EMC performance needs to be improved, please add EMC filter.



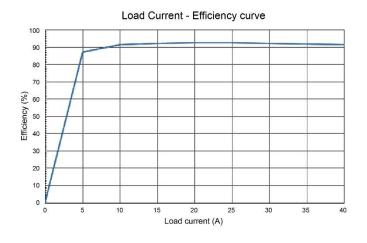


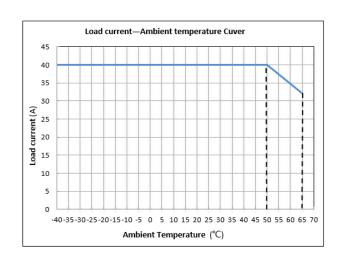
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PRODUCT CHARACTERISTIC CURVE









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MECHANICAL SPECIFICATION



