



EFO-PS300UP55L-5

FEATURES AND BENEFITS

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



CE MININGS

INPUT SPECIFICATIONS

ITEM	OPERATING CONDIT	MIN	TYPE	MAX	UNIT	
INPUT VOLTAGE RANGE	AC input		90		264	VAC
INPUT VOLTAGE FREQUENCY			47		63	Hz
INPUT CURRENT					5	
INRUSH CURRENT	220VAC	Cold start		50		А
POWER FACTOR	220VAC	Full load	0.96			
EFFICIENCY	230VAC	Full Load		90		





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OUTPUT SPECIFICATIONS

ITEM	OPERATING CONDITIONS		MIN	TYPE	MAX	UNIT
DC OUTPUT				5		
OUTPUT PRE SET VOLTAGE	220VAC input, load 0A				5.1	V
RATED CURRENT	PSU with fixed to customer system aluminum heat-sink : 400mm*400mm*3mm			60		А
CURRENT RANGE NOTE 1			0		60	
OUTPUT VOLTAGE ACCURACY				±3.0		%
LINE REGULATION				±0.5		%
LOAD REGULATION				±3		%
OVERSHOOT AND UNDERSHOOT					5	mV
RIPPLE & NOISE NOTE 2	0~65°C				150	mV
TEMPERATURE COEFFICIENT				±0.03		%/°C
SET-UP TIME	220VAC	Full Load			2	S
HOLD-UP TIME	220VAC	input voltage shut down at 90° phase Load 48A				ms
OUTPUT VOLTAGE ADJUSTABLE					5	V
OVER POWER	325W~450W, hiccup mode, auto recovery					
OVER-CURRENT	110VAC ~ 264VAC 65A~90A, hiccup mode, auto recovery			ry		
OVER-VOLTAGE	4.5V~6.5V, Hiccup mode, auto recovery					
SHORTED CIRCUIT	Long-term mode, auto recovery					
OVER TEMPERATURE	OTP sensor:105°C±5°C(detect on inner ambient);shut down, auto recovery after the sensor's temperature goes down 80°C±10°C			or's		

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 & 100uF parallel capacitor.





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ITEM		OPERATING CONDITIONS		MIN	TYPE	MAX	UNIT
WITHSTAND	PRIMARY- SECONDARY				3.0K		VAC
VOLTAGE	PRIMARY-PG	≦10mA	≦10mA		1.5K		VAC
	SECONDARY-PG						VDC
LEAKAGE	INPUT-PG	264VAC Input	264\/AC Input			3.5	mA
CURRENT	INPUT - OUTPUT	2047/70 Iliput				0.25	mA
ISOLATION RESISTANCE		10ΜΩ					
OPERATING TEMPERATURE STORAGE TEMPERATURE OPERATING HUMIDITY		No condensing (refer to the derating curve)		-40		+65	°C
		No condensing (refer to the derating curve) Non-condensing		-40		+85	°C
				20		90	%RH
STORAGE HUMIDITY		Non-condensing		10		95	%RH
SAFETY STANDARD MTBF		UL/CE EN 62368-1					
		MIL-HDBK-217F 25°C, Full load			>100,0	000 Hrs	

ELECTROMAGNETIC COMPATIBILITY (EMC)

EMISSIONS	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	
	EMI Conduction & Radiation	EN55022, EN55024	CLASS A
	Harmonic current	EN61000-3-2	CLASS D
	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. The equipment must be re-confirmed that it still meets EMC directives.

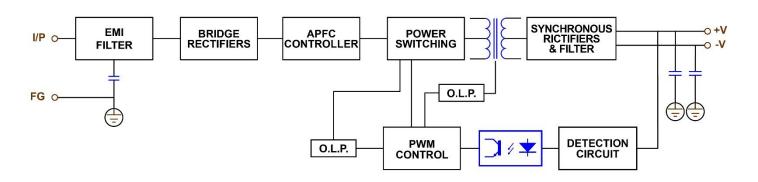
If the EMC performance needed to be improved, please add EMC filter.



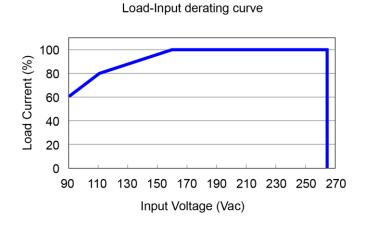


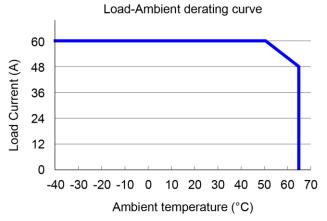
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PRODUCT CHARACTERISTIC CURVE





A HOUSE MOUNTS

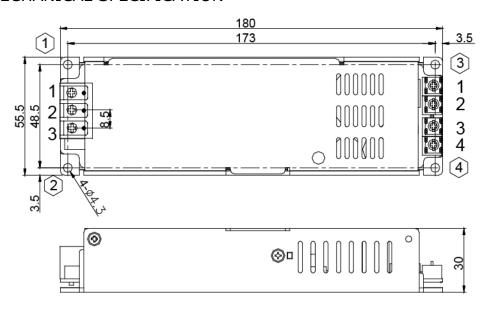
Note: PSU with fixed to aluminum heat-shink of 400*400*3mm

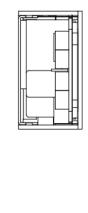




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MECHANICAL SPECIFICATION





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Mounting Position	Mounting Type	Mounting Position Number	Screw Type	Lmax	Mounting Torque (max)
Bottom Mounting	Fixing by screws	1-4	M3	4mm	6.5Kgf.cm (max)

Remark: For safety purpose, the screw inside the PSU housing should not exceed 4mm. (Refer the drawing on right side).

1.Instructions for the AC input connectors

Part number	Function	Connector's Type	Cable type	Max. torque
1	(
2	N	85 Terminal Row	22-12AWG	7.5Kgf.cm (max)
3	L			

2.Instructions for DC output connectors

Part number	Function	Connector's Type	Cable type	Max. torque	
1/2	+V	Connectors terminal	26 14 0 0/0	7.5Kgf.cm (max)	
3/4	-V	Connectors terminal	26-14AVVG	7.5Kgi.cm (max)	

Instructions:

- 1.Dimension unit: mm.
- 2. The unmarked to lerance of overall dimension is ±1mm.
- Choose the best mounting type of the module.

