

## AC/DC 200W Enclosed Switching Power Supply

**EFO-PS200UP55L-4.5**

### FEATURES AND BENEFITS

- AC input: 90VAC ~ 264VAC
- Output protections: OLP/OPP/SCP
- Wide operating ambient temperature (-40°C~65°C)
- 100% full load burn-in test
- High Efficiency, and High Reliability
- Ultra-thin (26.6mm)
- High Efficiency 89%
- 3 years warranty

### PRODUCT SPECIFICATIONS

Part No	EFO-PS200UP55L-4.5
Output Power (W)	200
Output Voltage Adjustable Range (V)	2.8-5.1
Nominal Output Voltage And Current (Vo/Io)	4.5V/40A
Efficiency At 230VAC (%) Typ.	89
Dimensions	165.00 x 56.00 x 26.50 mm
Weight	358g
Case Material	Metal (AL5052, SGCC)
Cooling Method	Free air flow
Certification	UL/CE

### INPUT SPECIFICATIONS

ITEM	OPERATING CONDITIONS		MIN	TYPE	MAX	UNIT
INPUT VOLTAGE RANGE	AC input		90	---	264	VAC
INPUT VOLTAGE FREQUENCY			47	---	63	Hz
INPUT CURRENT			---	---	3	A
INRUSH CURRENT	220VAC	Cold start	---	80	---	
EFFICIENCY	230VAC	Full Load	---	89	---	



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### OUTPUT SPECIFICATIONS

ITEM	OPERATING CONDITIONS		MIN	TYPE	MAX	UNIT
DC OUTPUT			---	4.5	---	V
OUTPUT PRE SET VOLTAGE	220VAC input, load 0A		4.5	---	4.6	
RATED CURRENT			---	40	---	A
CURRENT RANGE NOTE 1			0	---	40	
OUTPUT VOLTAGE ACCURACY			---	±2.0	---	%
LINE REGULATION			---	±0.5	---	%
LOAD REGULATION			---	±2	---	%
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	---	---	2.0	S
HOLD-UP TIME	220VAC	Full Load	10	---	---	ms
OUTPUT VOLTAGE ADJUSTABLE			2.8	---	5.1	V
OVER POWER			105%~150% of rated output power, auto recovery			
OVER-CURRENT	110VAC ~ 264VAC	105%~150% of rated output current, auto recovery				
SHORTED CIRCUIT			Long-term mode, auto recovery			

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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## GENERAL SPECIFICATIONS

ITEM	OPERATING CONDITIONS		MIN	TYPE	MAX	UNIT
WITHSTAND VOLTAGE	PRIMARY-SECONDARY	≤10mA	---	3.0K	---	VAC
	PRIMARY-PG		----	1.5K	---	VAC
	SECONDARY-PG		---	0.5K	---	VDC
LEAKAGE CURRENT	INPUT-PG	264VAC Input	---	---	3.5	mA
	INPUT - OUTPUT		---	---	0.25	mA
ISOLATION RESISTANCE		10MΩ				
OPERATING TEMPERATURE		No condensing (refer to the derating curve)	-40	---	+65	°C
STORAGE TEMPERATURE		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		UL/CE EN 62368-1				
MTBF		MIL-HDBK-217F	25°C, Full load		>100,000 Hrs	

## ELECTROMAGNETIC COMPATIBILITY (EMC)

EMC TEST	STANDARD	LEVEL
IMMUNITY	ESD	EN61000-4-2
	RS	EN61000-4-3
	EFT	EN61000-4-4
	Surge	EN61000-4-5
	CS	EN61000-4-6
	PFMF	EN61000-4-8
		EN55024, light industry level ,criteria B

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.

At 40°C, 220Vac input · Can play dynamic picture of Full color LED display screen. To play full white picture after the LED display screen preheated 5 minutes.

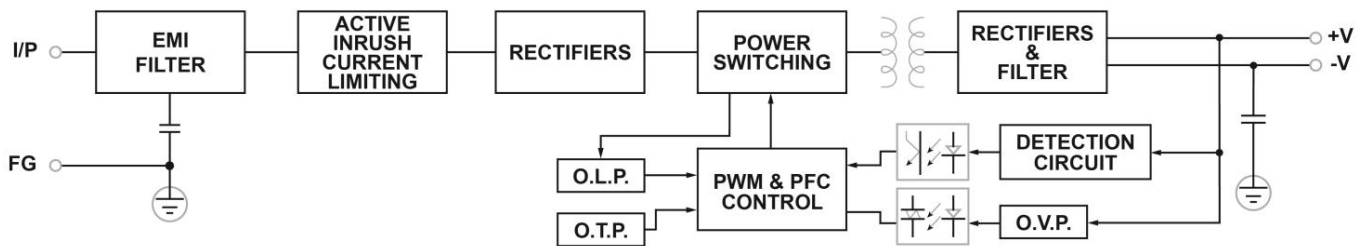
I Division of all the parameters of the test method and measurement standards remain within the scope of the law to allow the final interpretation. If you have any questions, please contact our customer service staff.



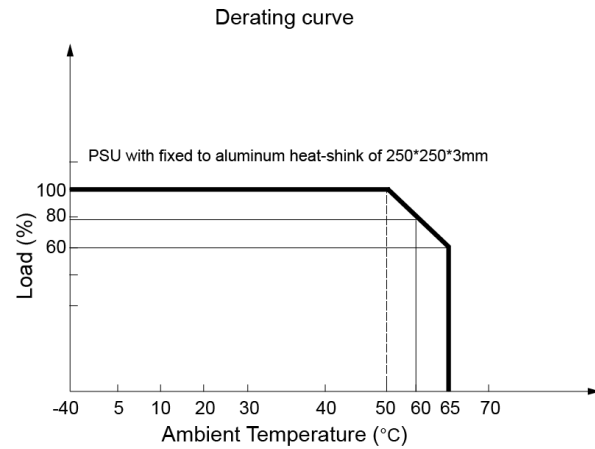
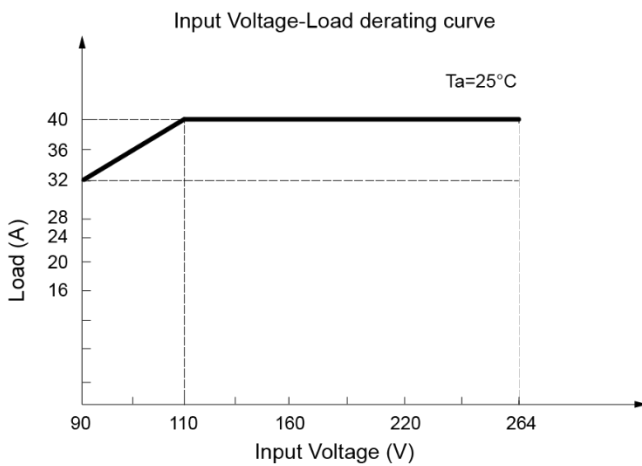
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## BLOCK DIAGRAM



## PRODUCT CHARACTERISTIC CURVE

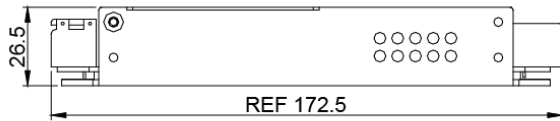
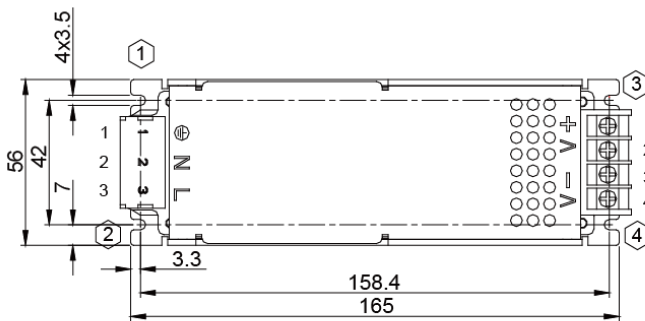




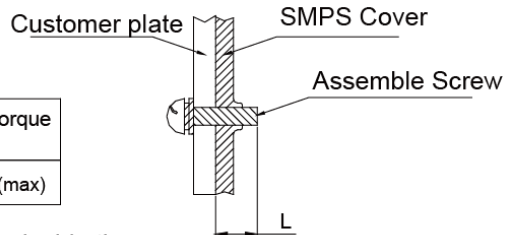
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## MECHANICAL SPECIFICATION



Notice:  
 1, Dimensional Unit:mm  
 2, Unmarked Tolerance is GB/T 1804-m



Mounting Position	Mounting Method	Mounting Tag Number	Screw Type	Lmax	Mounting Torque (max)
Bottom Mounting	Fixing by screws	①—④	M3	4mm	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	Function	Connector	Requirement for Cables	Max. Torque
1	⊕	8.5 Terminal Row	22-12AWG	6.5Kgf.cm (max)
2	N			
3	L			

### 2, Instruction of the DC Output Connectors

Part number	Function	Connector	Requirement for Cables	Max. Torque
1/2	+V	8.25 Terminal Row	14-26AWG	6.5Kgf.cm (max)
3/4	-V			