



**S2500 Series 500 Watts**

**AC/DC Switching Power Supply**

**With Active PFC**

**FEATURES**

- Built In Remote Sense Function
- Built In Good Signal Output
- 100% Hi-Pot tested
- Safety Approvals, EMC compliance
- Cooling fan with On/Off auto control

**ELECTRICAL SPECIFICATIONS**

- Input Voltage : 100-240VAC (Full Range)
- Frequency : 47 - 63Hz
- Power factor : >0.95% Min @110 VAC;
- Inrush current : Cold Start, 20A 115 VAC; 40 A 220 VAC MAX
- MTBF: 120000 Hours per Mil- HDBK-217F
- Voltage regulation : ≤ 0.5%
- Maximum power (Po) : 500W
- Hold-up time : 10ms Typical at full load
- Protection : Over Voltage protection; Auto Recovery  
Short Circuit protection; Auto Recovery  
Over Load protection;105%-135% - Auto Power Limited



Dimension : L 190 W 106 ×H 50mm

**SAFETY STANDARDS**

- UL 60950
- CSA No.60950-1

**EMI STANDARDS**

- EN 55022 Class A
- EN 61000-3-2;EN61000-3-3
- EN55024 ( IEC EN61000-4-2)
- IEC 61000-4-3; IEC 61000-4-4
- IEC 61000-4-5; IEC 61000-4-6
- IEC 61000-4-8; IEC 61000-4-11

**ENVIRONMENTAL**

- Operating temperature : -15°C to +50°C @100%; - °
- Storage temperature : -20°C to +85°C

**DC OUTPUT & FEATURES**

Model	Output Rating		Po(Max.)	Load Regulation	Ripple & Noise (Vp-p)	Efficiency
	Vo	Io (max)				
S2500-12	12.0V	41.6A	500W	1.0%	150mV	78%
S2500-13	13.0V	38.4A	500W	1.0%	150mV	78%
S2500-15	15V	33.3A	500W	1.0%	150mV	78%
S2500-24	24V	20.8A	500W	1.0%	240mV	80%
S2500-48	48V	22A	500W	1.0%	250mV	82%
S2500-110	110V	4.5A	500W	1.0%	1100mV	83%
S2500-125	125V	4.0A	500W	1.0%	1250mV	83%

**Note:** 1. Ripple and Noise are measured at oscilloscope 20MHz bandwidth with a electrolytic 47uF and 0.1uF ceramic capacitor in parallel at the output connector.



**SMP TECHNOLOGY, INC.**

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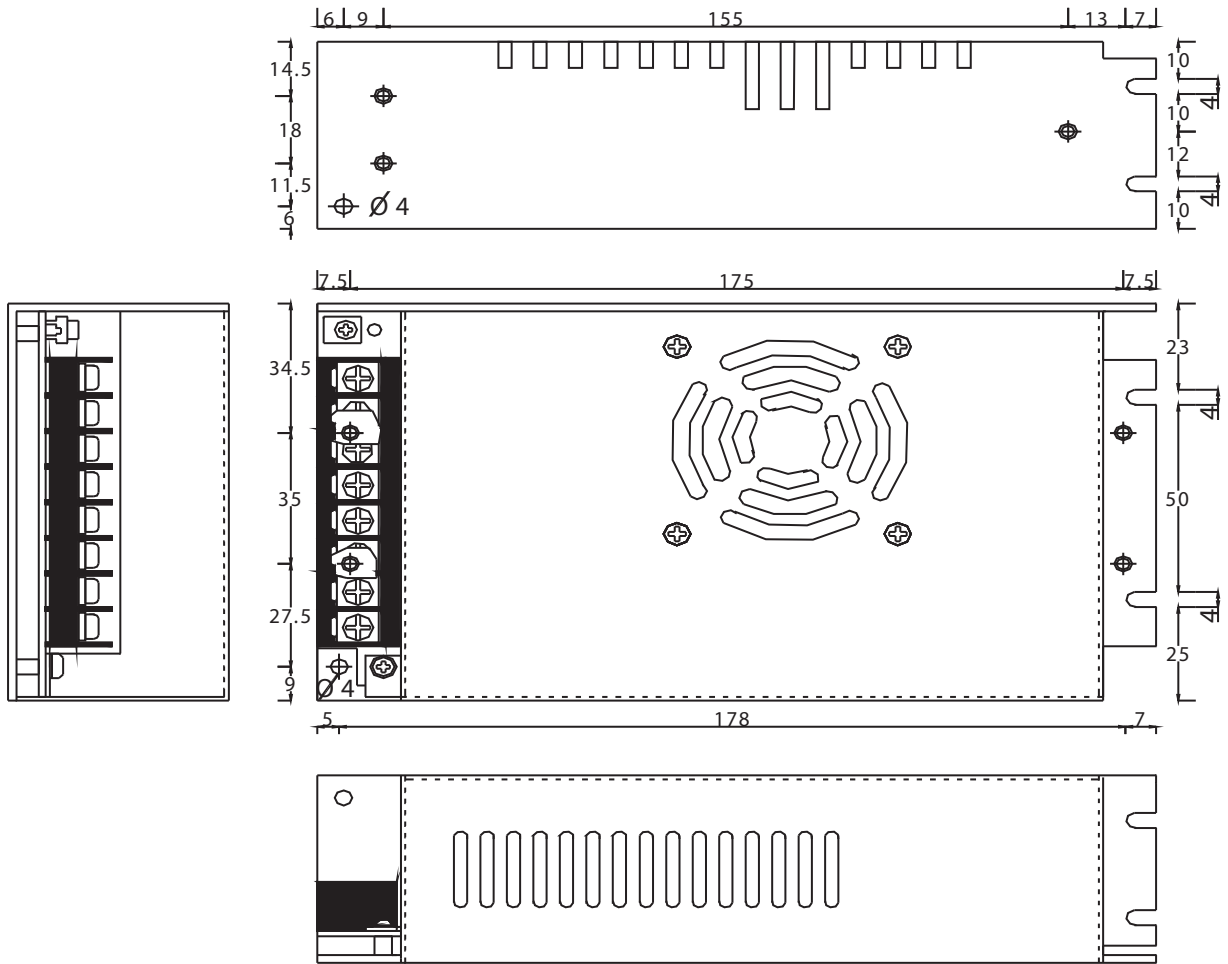
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**AC/DC Switching Open Frame**

**MECHANICAL SPECIFICATION**



UNIT : mm  
 DIMENSIONS : 190(L) x 106(W) x 50(H) mm

MATERIAL : ALUMINUM  
 COLOR : SILVER

**PCB Barrier Terminal Block**

Pin	Single	Description
1	L	L : Line Terminal of Input N : Neutral Terminal of Input FG : Ground (Earth) No Polarity At DC Input
2	N	
3	FG	
4	G	NC : No connection G : DC Output Ground Terminal
5,6	G	
7,8	V1	Vx : DC Output Terminal (Specify at spec.)



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