

**Features:**

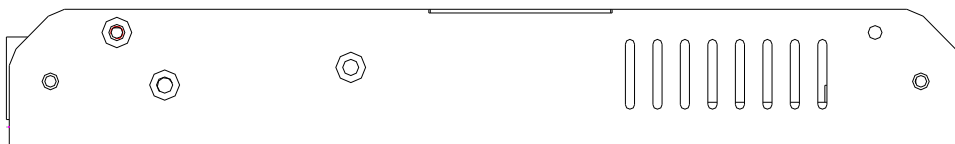
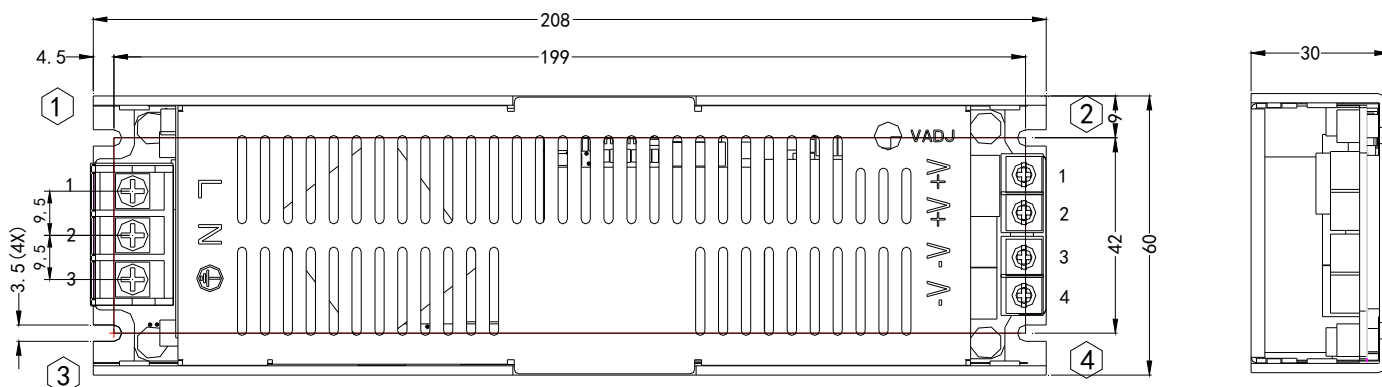

- AC input: 90 ~ 264Vac
- Built-in active PFC function, PF>0.95
- High efficiency, long life and high reliability
- Output protections: OCP/SCP /OTP
- Wide operating ambient temperature (-40°C~65°C)
- Operating altitude up to 3000m
- 100% full load burn-in test
- Conformal coating
- No fan suitable for quiet environment
- 3 years warranty


**SPECIFICATION**

MODEL		VAT-UP300S-5-60L-A	VAT-UP300S-4.6-60L-A	
OUTPUT	DC Output	5V	4.6V	
	Rated Current	60A	60A	
	Current Range Note 1	0~60A	0~60A	
	Peak load	70A, last 50mS at 220Vac		
	Ripple and Noise	25~65°C	≤150mV	
		0~25°C	≤200mV	
	Voltage Adj. Range	3.3~5.10V		
	Voltage Accuracy	±2.0%		
	Line Regulation	±0.5%		
	Load Regulation	±2.0%		
	Set-up Time	≤2.0S (220Vac input, Full load)		
	Hold up Time	≥5mS(220Vac ,80% load)		
	Temperature Coefficient	±0.03%/°C		
Overshoot	<5%			
INPUT	Voltage Range	90Vac~264Vac		
	Frequency Range	47Hz~63Hz		
	Efficiency ( Typical)	90%	90%	
	AC Current (max.)	<5A		
	Inrush Current (Typical)	<60A@220Vac Cold start		
	Power factor	>0.95(220Vac input ,full load)		
PROTECTION	Over Power	325W~450W, Hiccup mode, auto recovery		
	Over Current	65A~90A, Hiccup mode, auto recovery		
	Shorted Circuit	Long-term mode, auto recovery		
	Over Temperature	115°C±5°C (detect on L4/C1);shut down, auto recovery after the temperature goes down		
ENVIRONMENT	Operating amb. Temp. & Hum.	-40°C~65°C; 20%~90%RH No condensing (refer to the derating curve)		
	Storage Temp. & Hum.	-40°C~85°C; 10%~95%RH No condensing		
SAFETY & EMC Note 3	Safety Standards	UL60950-1 2nd Ed; IEC 60950-1:2005(2nd Ed) ;EN60950-1:2006		
	Withstand Voltage	Primary-Secondary:3.0KVac/10mA .Primary-PG:1.5KVac/10mA. Secondary-PG:0.5KVDC/10mA.		
	Leakage Current	Input—output: ≤0.25mA Input—PG: ≤3.5mA (264Vac input, 63Hz)		
	Isolation Resistance	10M ohms		
	EMI Conduction&Radiation	Compliance to EN55022, EN55024, FCC PART 15 Class B		
	Harmonic Current	Compliance to EN61000-3-2 Class D		
	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11;		
OTHERS	MTBF (MIL-HDBK-217F)	More than 200,000Hrs (25°C, Full load)		
	Dimension (L*W*H)	208*60*30mm		
	Packing	32pcs/CTN		
	Cooling method	Free air flow (PSU fixed to aluminum heat-sink of 400mm*400mm*2mm)		

**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 0.1 uF & 100uF parallel capacitor.
3. 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.

**Mechanical Specification**


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**

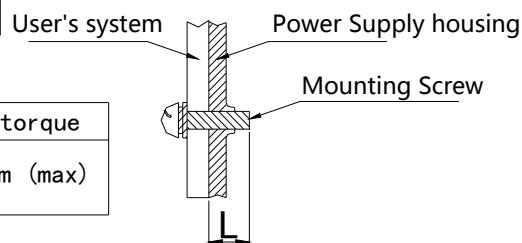
Part number	Function	Connector's Type	Cable type	Max. torque
1	L	95 Terminal Row with transparent cover	22-14AWG	12Kgf. cm (max)
2	N			
3	⊕			

**Instructions:**

1. Dimension unit
2. The unmarked tolerance of overall dimension is ±1mm
3. Choose the best mounting type of the module

**2. Instructions for DC output connectors**

Part number	Function	Connector's Type	Cable type	Max. torque
1/2	+V	Connectors terminal	22-14AWG	12Kgf. cm (max)
3/4	-V			

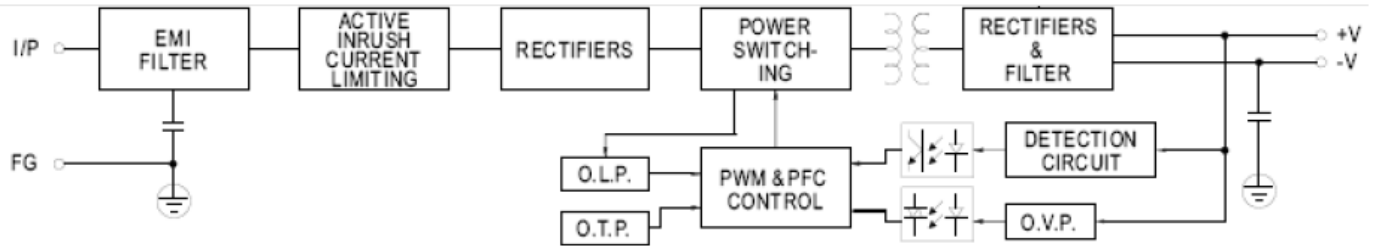

**drawing**
**1. 交流输入端子的安装使用**

位号	功能	端子	线材安装规格	最大扭矩
1	L	9.5带翻盖端子排	22-14AWG	12Kgf. cm (max)
2	N			
3	⊕			

**2. 直流输出端子的安装使用**

位号	功能	端子	线材安装规格	最大扭矩
1/2	V+	接线柱	22-14AWG	12Kgf. cm (max)
3/4	V-			

■ Block Diagram



■ Derating Curve (PSU fixed to aluminum heat-sink >400\*400\*2mm)

