

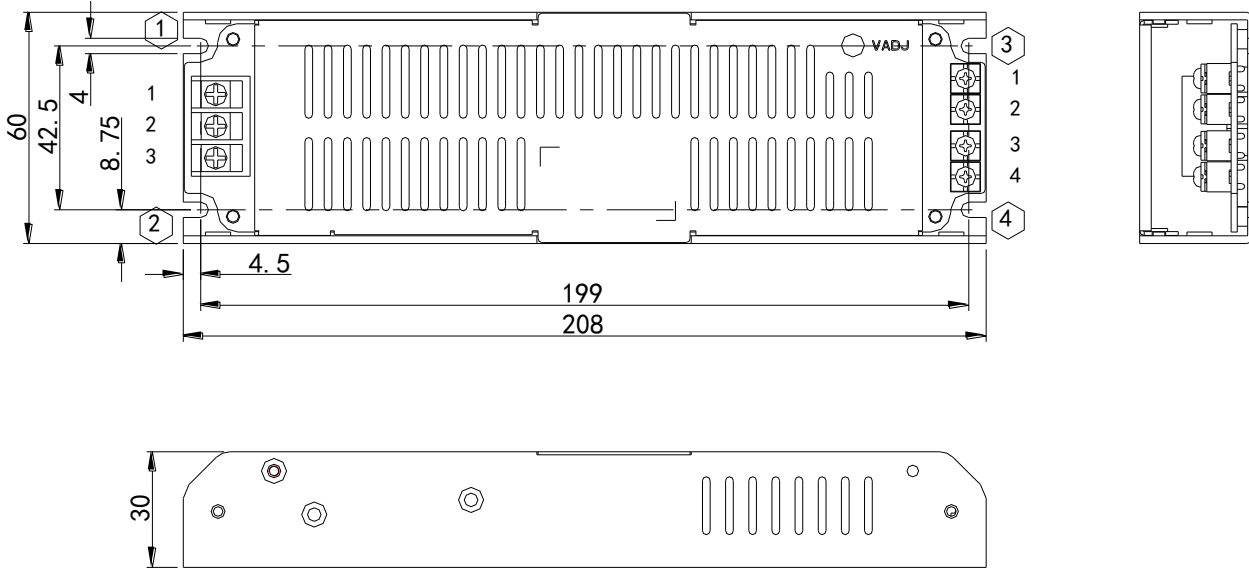

**Features:**

- AC input: 90VAC ~ 264VAC
- Output protections: OLP/SCP
- 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


**SPECIFICATION**

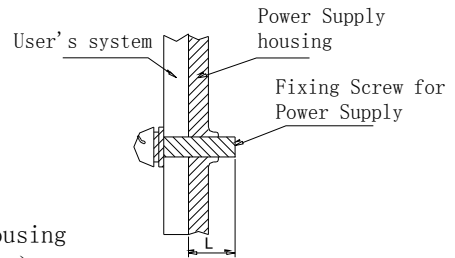
<b>MODEL</b>		VAT-UP200S-3.8-60L-AII
<b>OUTPUT</b>	DC Output	3.8V
	Output Pre set voltage	3.80-3.90V (220Vac input, load 0A)
	Rated Current	40A (PSU bottom with fixed on heatsink of square > 250*250*2mm aluminum plate)
	Current Range	Note 1 0~40A
	Ripple and Noise	25~65°C 150mV
	Voltage Adj. Range	3.60~5.10V
	Voltage Accuracy	±2.0%
	Line Regulation	±0.5%
	Load Regulation	±2.0%
	Set-up Time	≤1.0S (220Vac input, Full load) & ≤2.5S (110VAC input, Full load)
	Hold up Time	≥10mS(220Vac input voltage shut down at 90° phase, 80%load)
	Temperature Coefficient	±0.03%/°C
Overshoot and Undershoot	<5%	
<b>INPUT</b>	Voltage Range	90Vac~264Vac
	Frequency Range	47Hz~63Hz
	Efficiency ( Typical)	Typ 87%(220Vac input ,full load)
	AC Current (max.)	2.5A
	Inrush Current (Typical)	80A@220Vac Cold start
Power factor	>0.93(220Vac input ,full load)	
<b>PROTECTION</b>	Over Power	178W~228W, auto recovery
	Over Current	45A~60A, auto recovery
	Over Voltage	/
	Shorted Circuit	Long-term mode, auto recovery
	Over Temperature	/
<b>ENVIRONMENT</b>	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
<b>SAFETY &amp; EMC</b> Note 3	Safety Standards	GB4943-2001; 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, )
	Isolation Resistance	≥10M ohms
	EMI Conduction&Radiation	EN55022, EN55024, CLASS B
	Harmonic Current	EN61000-3-2 CLASS D
<b>OTHERS</b>	EMS Immunity	EN61000-4-2,3,4,5,6,8,11;EN55024,light industry level ,criteria B
	MTBF (MIL-HDBK-217F)	25°C 100,000Hrs, MIL-217 Method 2 Components Stress Method
	Dimension (L*W*H)	208*60*30mm
	Packing	/
<b>NOTE</b>	Cooling method	Free air flow (Fixed with customer system aluminum heatsink)
	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. he 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)
Side Mounting	Fixing by screws	⑤—⑧	M3	4mm	6.5Kgf. cm (max)

Remark:For safety purpose, the screw length inside the PSU housing should follow above table. (Refer the drawing on right side.)



Instructions:

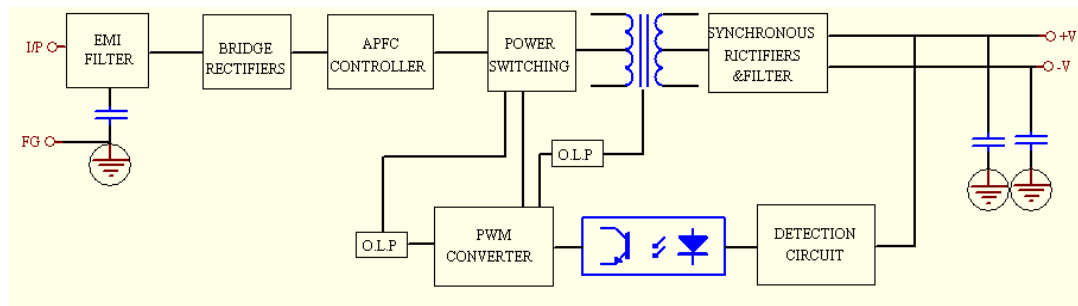
- 1, Dimension unit: mm
- 2, The unmarked tolerance of overall dimension is  $\pm 1$ mm

1, Instructions for the AC input connectors

Part number	Function	Connector	Wire spec.	Max. torque
1	L	95 Terminal Row	22-12AWG	7.5Kgf. cm (max)
2	N			
3	⊕			

2, Instructions for DC output connectors

Part number	Function	Connector	Wire spec.	Max. torque
1/2	-V	Terminal	14-26AWG	7.5Kgf. cm (max)
3/4	+V			

**Block Diagram**

**Derating Curve (PSU with fixed to customer system heatshink)**
**(The heatshink square > 250\*250\*2mm aluminum plate.)**

- 1. Load current—Input voltage Cuver    2. Load current—Ambient temperature Cuver**

