

Features:


- AC input: 90VAC ~ 264VAC
- Built-in Active PFC, PF>0.95
- High efficiency, long life and high reliability
- Output protections: OLP/SCP
- No fan suitable for quiet environment
- Wide operating ambient temperature (-40°C~65°C)
- 100% full load burn-in test
- Conformal coating
- 3 years warranty

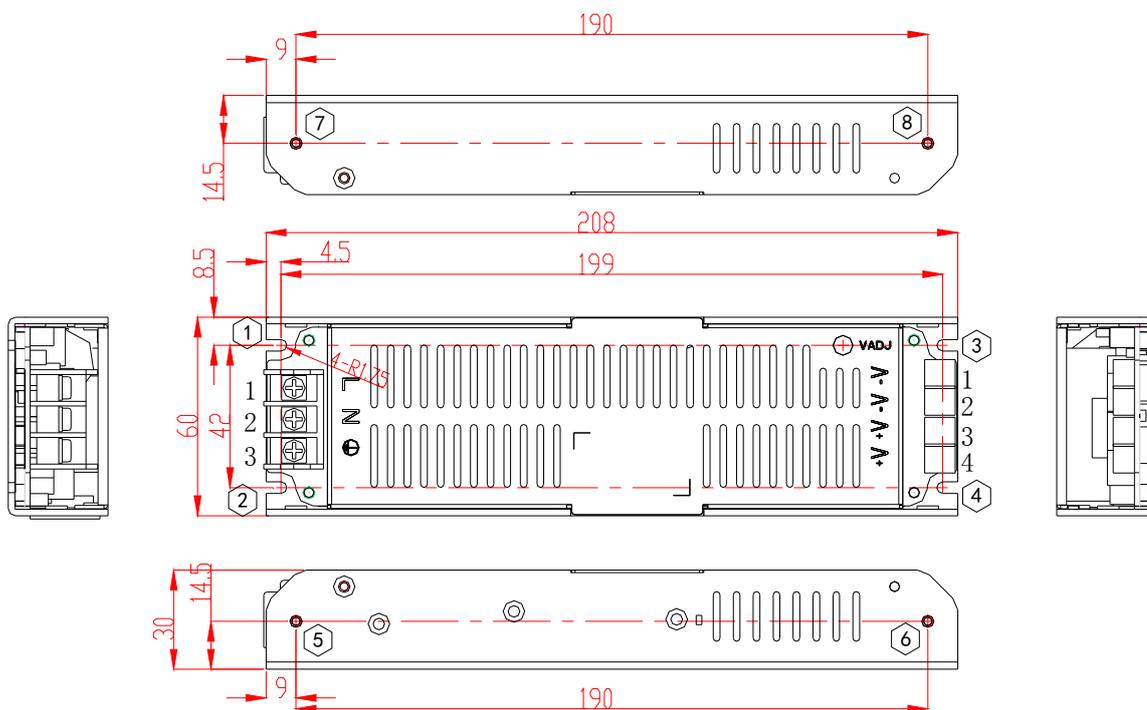

SPECIFICATION

MODEL		VAT-UP200S-5-60L-AII		
OUTPUT	DC Output	5V		
	Output Pre set voltage	4.95-5.05V (220Vac input, load 0A)		
	Rated Current	40A (PSU bottom fixed on heat sink of square > 250*250*2mm aluminum plate)		
	Current Range	Note 1	0~40A	
	Ripple and Noise	25~65°C	≤150mV	
		0~25C	≤200mV	
	Voltage Adj. Range	4.15~5.10V		
	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 , 80% load)		
	Temperature Coefficient	±0.03%/°C		
Overshoot and Undershoot	<5%			
INPUT	Voltage Range	90Vac~264Vac		
	Frequency Range	47Hz~63Hz		
	Efficiency (Typical)	89%(220Vac input ,full load)		
	AC Current (max.)	<2.5A		
	Inrush Current (Typical)	<80A@220Vac Cold start		
	Power factor	PF>0.95/110VAC & PF>0.93/220VAC (at full load)		
PROTECTION	Over Power	225W~300W, Hiccup, auto recovery		
	Over Current	45A~60A, auto recovery		
	Shorted Circuit	Long-term mode, auto recovery		
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,)		
	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 (25C, full load)		
	Dimension (L*W*H)	208*60*30mm		
	Packing	TBD		
	Cooling method	Free air convection		

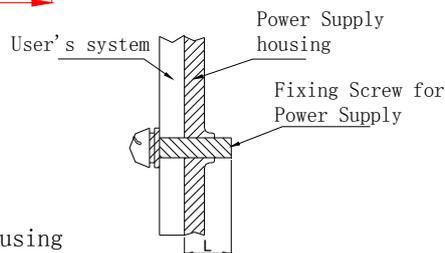
NOTE

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)
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:

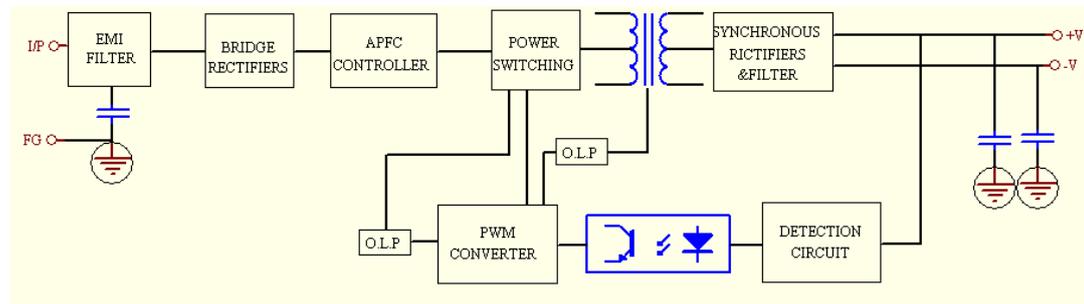
- 1, Dimension unit: mm
- 2, The unmarked tolerance of overall dimension is ± 1 mm

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 fixed to the heat sink of customer's system ,heat sink square>250*250*2mm aluminum plate)
