
Features:

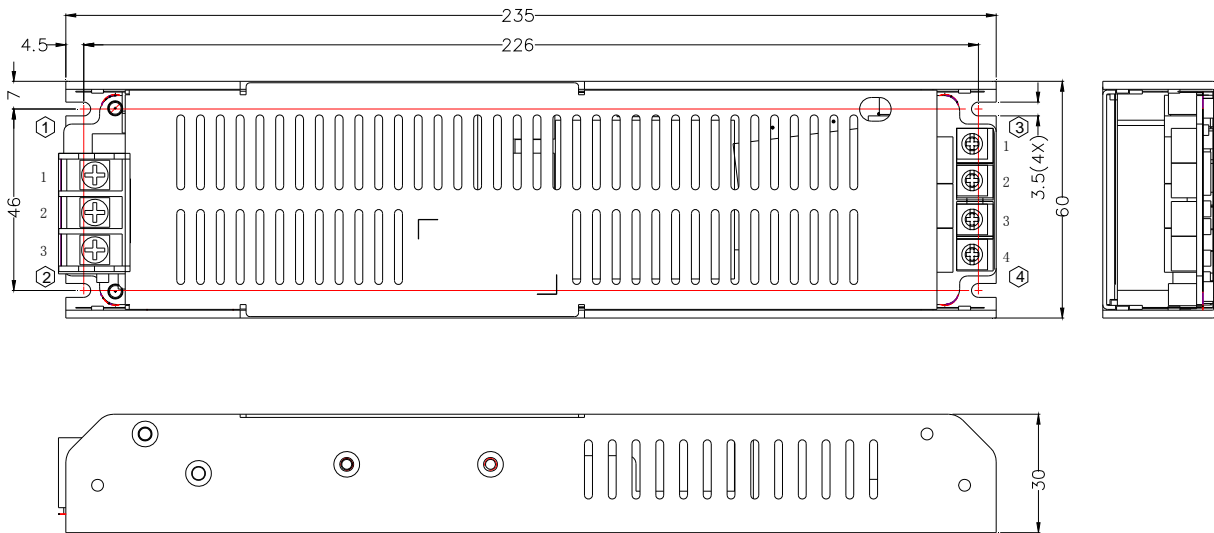
- AC input: 90 ~ 264Vac
- Built-in Active PFC, PF>0.93
- Output protections: OLP/SCP/OTP/OPP
- Wide operating ambient temperature (-40°C~80°C)
- No fan suitable for quiet environment
- 100% full load burn-in test
- Long life and high reliability
- High efficiency up to 90%
- Conformal coating
- Low profile, 30mm
- 3 years warranty

SPECIFICATION


MODEL		VAT-UP400S-5-60L-A
OUTPUT	DC Output	5V
	Output Pre set voltage	5.0-5.10V (220Vac input, load 0A)
	Rated Current	80A
	Current Range Note 1	0~80A
	Peak load	90A, last 50mS @ 220Vac
	Ripple and Noise 25~80°C	≤150mV
	Voltage Adj. Range	4.15~5.10V
	Voltage Accuracy	±2.0%
	Line Regulation	±0.5%
	Load Regulation	±2.0%
	Set-up Time	≤2.5S (110Vac input, Full load), ≤1S (220Vac 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)	90%(220Vac input ,full load)
	AC Current (max.)	<5A
	Inrush Current (Typical)	<80A@220Vac Cold start
	Power factor	>0.93(220Vac input ,full load); >0.95/(110Vac input ,full load)
PROTECTION	Over Power	425W~550W, Hiccup mode, auto recovery
	Over Current	85A~110A, Hiccup mode, auto recovery
	Shorted Circuit	Long-term mode, auto recovery
	Over Temperature	105°C±5°C (detect on Q1/D1 batten);shut down, auto recovery after the temperature goes down
ENVIRONMENT	Operating amb. Temp. & Hum.	-40°C~80°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	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,63Hz)
	Isolation Resistance	10M ohms
	EMI Conduction & Radiation	EN55022, EN55024, FCC Part 15, Class B
	Harmonic Current	EN61000-3-2 CLASS D
OTHERS	EMTBF (MIL-HDBK-217F)	>200,000Hrs, full load
	Dimension (L*W*H)	235*60*30mm

POWERLD	
Packing	18pcs/CTN
Cooling method	Free air flow (Fixed to aluminum heatshink of customer's system)
NOTE	<ol style="list-style-type: none">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	4.0mm	8Kgf.cm (max)

Instructions:

1. Dimension unit
2. The unmarked tolerance of overall dimension is $\pm 1\text{mm}$
3. Choose the best mounting type of the module

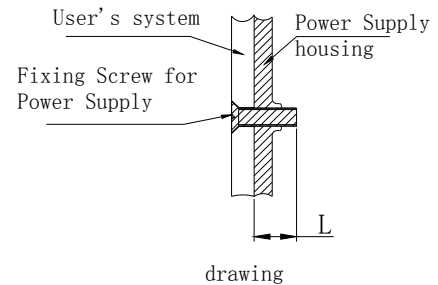
Remark: For safety purpose, the screw length inside the PSU housing should follow above table. (Refer the drawing on right side.)

1. Instructions for AC input connectors

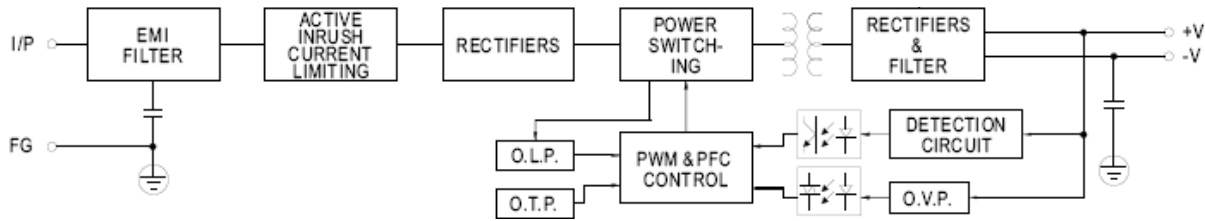
CON1	Part number	Input	Connector Type
	1	L	Pitch 9.5mm/3pin/flat base
	2	N	
	3	\ominus	

2. Instructions for DC output connectors

Part number	Output	Connector Type
1/2	V-	Terminal/7.11bf.in/ -40—105°C
3/4	V+	



■ Block Diagram



■ Derating Curve (PSU fixed to aluminum plate of customer's system, plate >400*400*2mm)

1. Load current—Input voltage Curve

2. Load current—Ambient temperature Curve

