

400Watts Single Output

VAT-UP400S-5-60L-P



Features:AC input: 90VAC ~ 264VAC

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 Built-in Active PFC, PF>0.95
- Built-III ACTIVE FFC, FF20.95
- High efficiency, long life and high reliability
- Output protections: OLP/SCP/OTP
- Wide operating ambient temperature $(-40^{\circ}C \sim 80^{\circ}C)$
- No fan suitable for quiet environment
- 100% full load burn-in test
- 1+1 and redundancy, current sharing function
- Conformal coating
- 3 years warranty



SPECIFICATION

MODEL			VAT-UP400S-5-60L-P	
	DC Output		5V	
OUTPUT	Output Pre set volta	ige	5.0-5.10V (220Vac input, load 0A)	
	Rated Current		80A (PSU fixed on heat sink of square > 400*400*2mm aluminum plate)	
	Current Range	Note 1	0~80A	
	Disale and Naise	25~80° ℃	≤150mV	
	Ripple and Noise	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		≤2.5S (110VAC input, Full load)	
	Hold up Time		≥8mS(220Vac input, 80% load)	
	Temperature Coefficient		±0.03% /°C	
	Current sharing unbalance		<10% (Current sharing bus voltage is 2.9-4V, single PS at 80A load)	
	Overshoot and Undershoot		<5%	
	Voltage Range		90Vac~264Vac	
	Frequency Range		47Hz~63Hz	
INDUT	Efficiency (Typical)		88%(220Vac input ,full load)	
INPUT	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)	
	Over Power		425W~550W, Hiccup, auto recovery	
DROTECTION	Over Current		85A~110A, Hiccup, auto recovery	
PROTECTION	Shorted Circuit		Long-term mode, auto recovery	
	Over Temperature		$105^{\circ}C$ <u>+</u> 5 $^{\circ}C$ (detect on Q1/D1 batten);shut down, auto recovery after the temperature goes down	
	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		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;	
	MTBF (MIL-HDBK-217F)		More than 200,000Hrs (25°C, Full load)	
OTHERS	Dimension (L*W*H)		250*60*30mm	

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Packing	TBD
Cooling method	Free air convection

PG SIGNAL	Power indicator terminal voltage	 Power supply is normal, the signal voltage: 3.0V ~ 3.5V (current 0~1mA) Power supply is abnormal, the signal voltage: 0V ~ 0.7V, (pull-up resistor is greater than 10k Ω) Control card to detect POWER GOOD signal port, in order to prevent interference misoperation, Recommended MCU or FPGA detection port to add the 0.01uF decoupling capacitor. 		
NOTE	 All parameters NOT specially r Measured at 20MHz of bandwi he SPS is considered a comp directives, Final product manufacture 	I parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature. easured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 100uF parallel capacitor. e SPS is considered a component which will be installed into final equipment. We cannot guarantee that the final equipment will meet EMC ives, Final product manufactures must be re-confirm that their product meets EMC directives.		



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

$2,\, Instructions$ for DC output connectors

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

3, Instructions for the singal terminal

Part number	Function	Connector
1	SHARE BUS	
2	GND	AW2001-WV/3P
3	POWER GOOD	

overall dimension is ± 1 mm 3, Choose the best mounting type of the module





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