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POWERLD® **LED Display Power Supply** **VAT260UPXXAA**

Features:

- Universal AC input (90~264Vac)
- With Active PFC, PF>0.95
- Stand-by power consumption: 0.35W
- High Efficiency, long life and High reliability
- Output protections: OCP/OVP/SCP/OTP
- Wide operating ambient temperature (-30℃~65℃)
- All using 105℃ long life electrolytic capacitors.
- 100% full load burn-in test
- Fanless, quiet working
- PCB with conformal coating
- Low profile, 23mm
- 3 years warranty
- UL/CE/CCC/CB approved

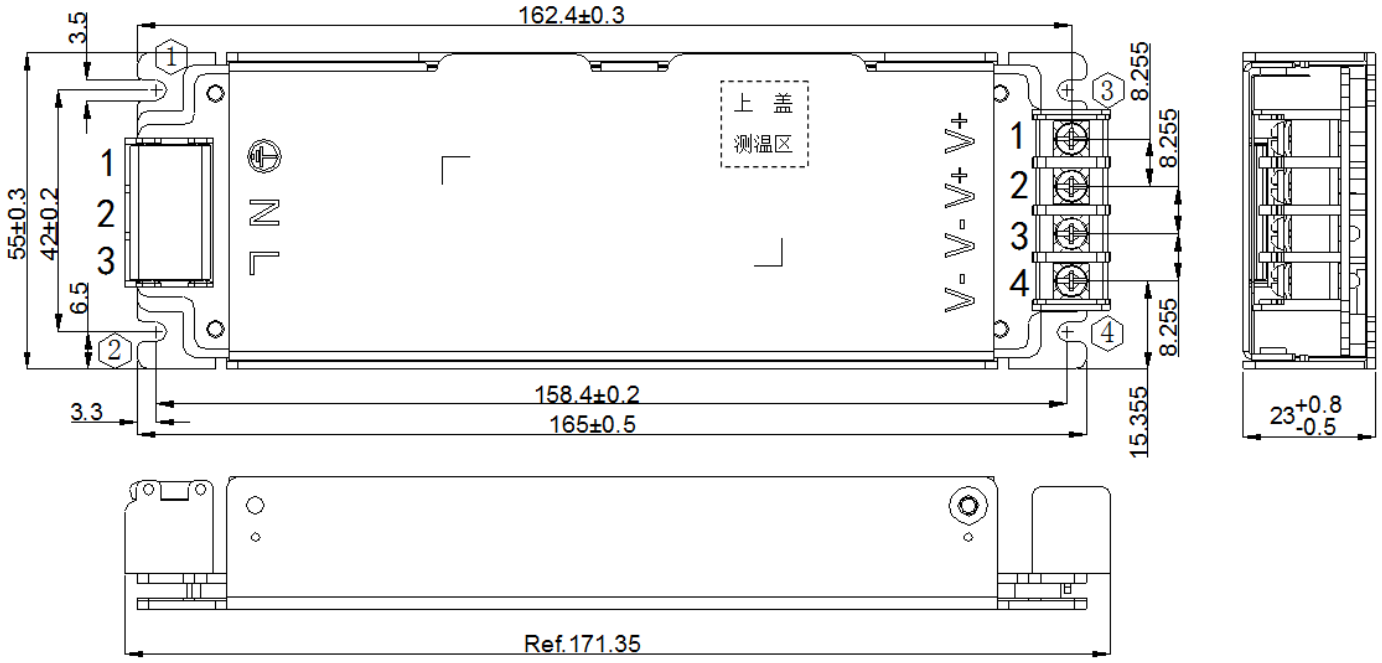
SPECIFICATION

MODEL			VAT260UP4.2AA	VAT260UP5AA
OUTPUT	DC Output		4.2V	5V
	Rated Current		50A	50A
	Current Range Note 1		0~50A	0~50A
	Ripple and Noise Note 2	0~65℃	≤250mV	≤300mV
		-30~0℃	≤500mV	≤600mV
	Voltage Accuracy		±3%	
	Set-up Time @ 25℃		≤4S (220Vac input, 50A)	
	Temperature Coefficient		±0.03%/℃	
	Overshoot		≤5.0%	
INPUT	Voltage Range		90Vac~264Vac	
	Rated input voltage range		100~240Vac	
	Frequency Range		47Hz~63Hz	
	Efficiency (Typical)		90% @220Vac input, 50A (91% @220Vac, 60% load)	
	AC Current (max.)		<3.5A	
	Inrush Current (Typical)		<80A@220Vac Cold start	
	Power Factor @ 25℃		>0.95 (input 220Vac, 50A)	
	Leakage Current		Input—output:<0.25mA Input—PG:<3.5mA (input 264Vac, 63Hz)	
Input Protection	Under voltage protection point		55Vac~85Vac, shut down	
	Under voltage recovery point		60Vac-90Vac, auto recovery, return difference≥5V	
Output PROTECTION	Over Current		≥55A , auto recovery	
	Over Voltage		4.6~6.5V, auto recovery	5.5~7V, auto recovery
	Over Temperature Test at 40A	Ambient temp.	Protection when ambient temp. is over 65℃; auto recovery when ambient temp. is lower than 50℃	
		Housing temp.	Protection when temp. of upper housing is over 85℃; auto recovery when it is less than 70℃	
	Short Circuit		Long-term mode, auto recovery	
ENVIRONMENT	Operating amb. Temp. & Hum.		-30℃~65℃; 20%~90%RH No condensing (refer to the derating curve)	
	Storage Temp. & Hum.		-40℃~85℃; 10%~95%RH No condensing	
SAFETY &EMC (Note 4)	Safety Standards		IEC 62368-1, UL62368-1, EN62368-1 approved	
	Withstand Voltage		Primary-Secondary: 3.0KVac/10mA .Primary-PG:1.5KVac/10mA. Secondary-PG: 0.5KVdc/10mA.	
	Isolation Resistance		10M ohms	
	EMI Conduction & Radiation		Compliance to EN55032 Class A	
	EMS Immunity		Compliance to EN61000-4-2,4,5,11;	
OTHERS	MTBF		>100000Hrs (25℃, Full load), MIL-217 Method 2 Components Stress Method	
	Dimension (L*W*H)		165*55*23mm	
	Packing		24pcs/CTN, 9.2Kgs/CTN	
	Cooling method		Power supply fixed on the aluminum plate of 450*450*3mm.	

NOTE	1. All parameters NOT specially mentioned are measured at rated input, rated load and 25℃ of ambient temperature. 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 47uF parallel capacitor. 3. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies" on http://www.powerld.com.cn.

■ Mechanical Specification

Unit: mm



■ Derating Curve (PSU fixed on a aluminum heat-sink of 450mm*450mm*3mm)