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POWERLD® **260Watts Single Output LED Display Power Supply** **VAT-HP260-5.2-C**

Features:

- High voltage input (176~264Vac)
- With Active PFC, PF>0.95
- Surge 300Vac for 60S
- High Efficiency, long life and High reliability
- Output protections: OCP/SCP/OPP/OTP
- Wide operating ambient temperature (-40℃~50℃)
- Operating altitude up to 5000m
- All using 105℃ long life electrolytic capacitors.
- 100% full load burn-in test
- Fanless, quiet working
- PCB with conformal coating
- Low profile, 30mm
- 3 years warranty

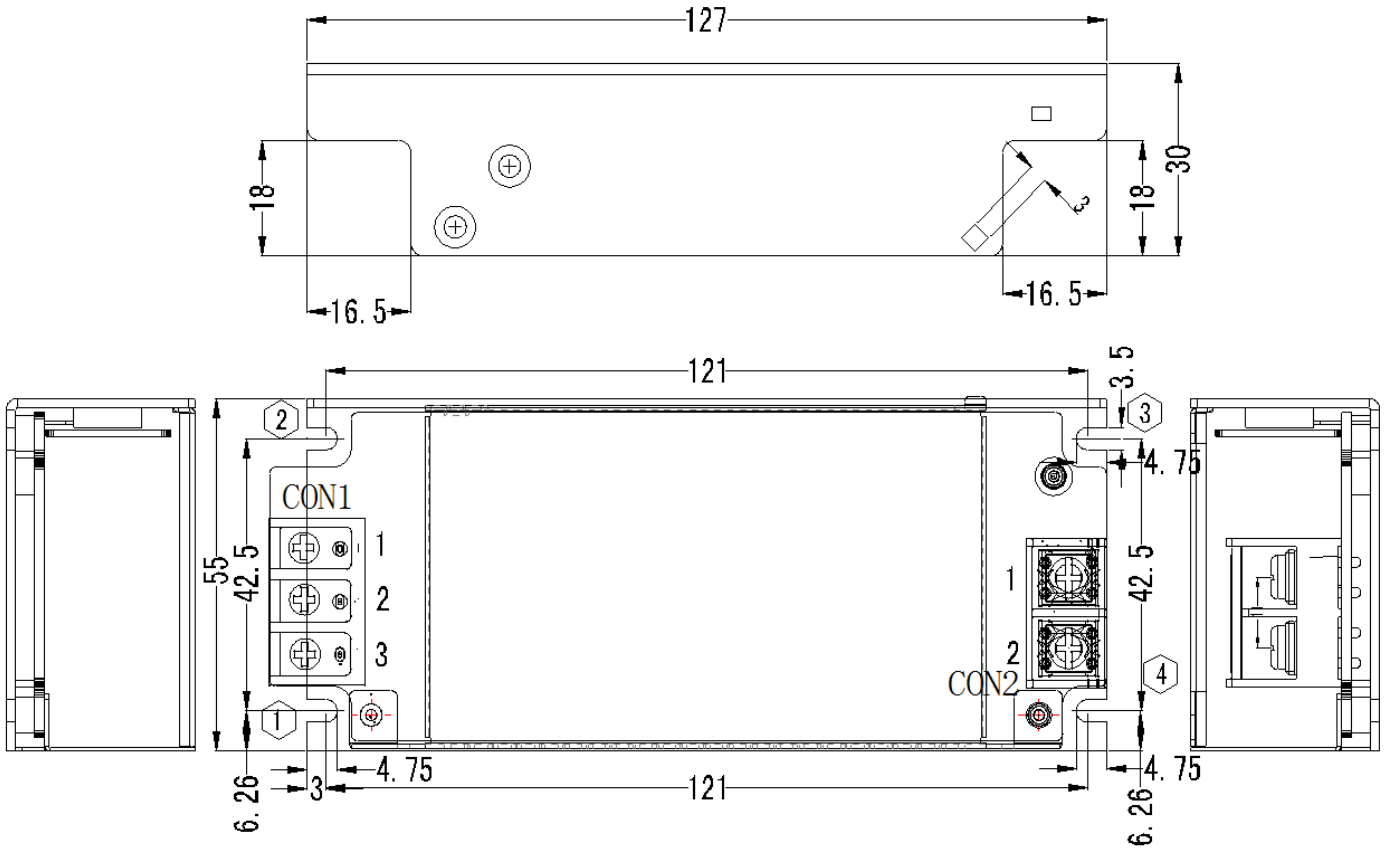
SPECIFICATION

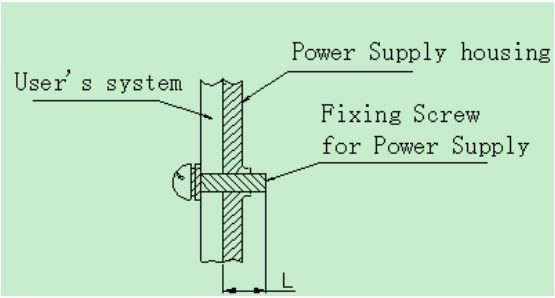
MODEL			VAT-HP260-5.2-C
OUTPUT	DC Output		5.2V
	Rated Current		40A
	Current Range Note 1		0~50A
	Peak load		55A
	Ripple and Noise Note 2	0~50℃	≤150mV
		-40~0℃	≤400mV
	Voltage Accuracy@-40~50C		±3%
	Line Regulation		±0.5%
	Load Regulation		±2%
	Set-up Time @ 25℃		≤2S (220Vac input, 40A)
	Hold up Time		≥5mS (220Vac input, 32A)
	Temperature Coefficient		±0.03%/℃
	Overshoot and Undershoot		<±5%
INPUT	Voltage Range Note 3		176~264Vac
	Frequency Range		47Hz~63Hz
	Efficiency (Typical)		92% (220Vac input, 40A)
	AC Current (max.)		<3.5A
	Inrush Current (Typical)		<60A@220Vac Cold start
	Power Factor @ 25℃		>0.95 (input 220Vac, 40A)
	Stand by power consumption		<4W
	Leakage Current		Input—output:<0.25mA Input—PG:<3.5mA (input 264Vac, 63Hz)
PROTECTION	Over Current		55~80A , hiccup mode, auto recovery
	Over Power		286~416W, hiccup mode, auto recovery
	Over Temperature		115℃+5℃(detect on temperature protector);shut down, auto recovery after ambient temperature goes down to 50℃(temperature protector goes down to 85℃+15℃)
	Short Circuit		Long-term mode, auto recovery
ENVIRONMENT	Operating amb. Temp. & Hum.		-40℃~50℃; 20%~90%RH No condensing(refer to the derating curve)
	Storage Temp. & Hum.		-40℃~85℃; 10%~95%RH No condensing
SAFETY &EMC (Note 3)	Safety Standards		GB4943 / EN60950
	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 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)	>200000h (25℃, Full load)
	Dimension (L*W*H)	133*55*30mm
	Packing	49PCS/CTN, 15KGS, 0.04CBM
	Cooling method	Cooling by free air convection
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



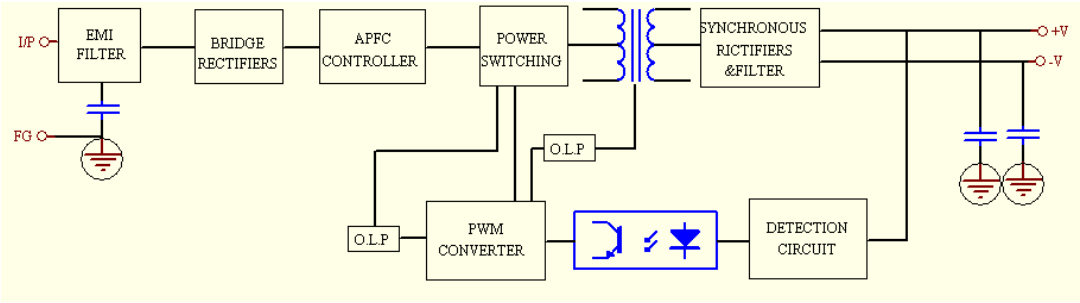


Mounting type	Mounting holes	Screw Specs	Lmax	Installing torque
Bottom	1~4	M3	4.0mm	8Kgf.cm(max)

1.AC terminal blocks			
CON 1	Terminal No.	Function	Specs
	1	L	8.25 gap 3P terminal blocks
	2	N	
	3	PG	

2.DC terminal blocks information			
CON 2	Terminal No.	Function	Specs
	1	V-	11mm gap 2P terminal blocks
	2	V+	

■ Block Diagram



■ Derating Curve (PSU fixed to aluminum heat-sink of 500mm*500mm*3mm)