

Features:

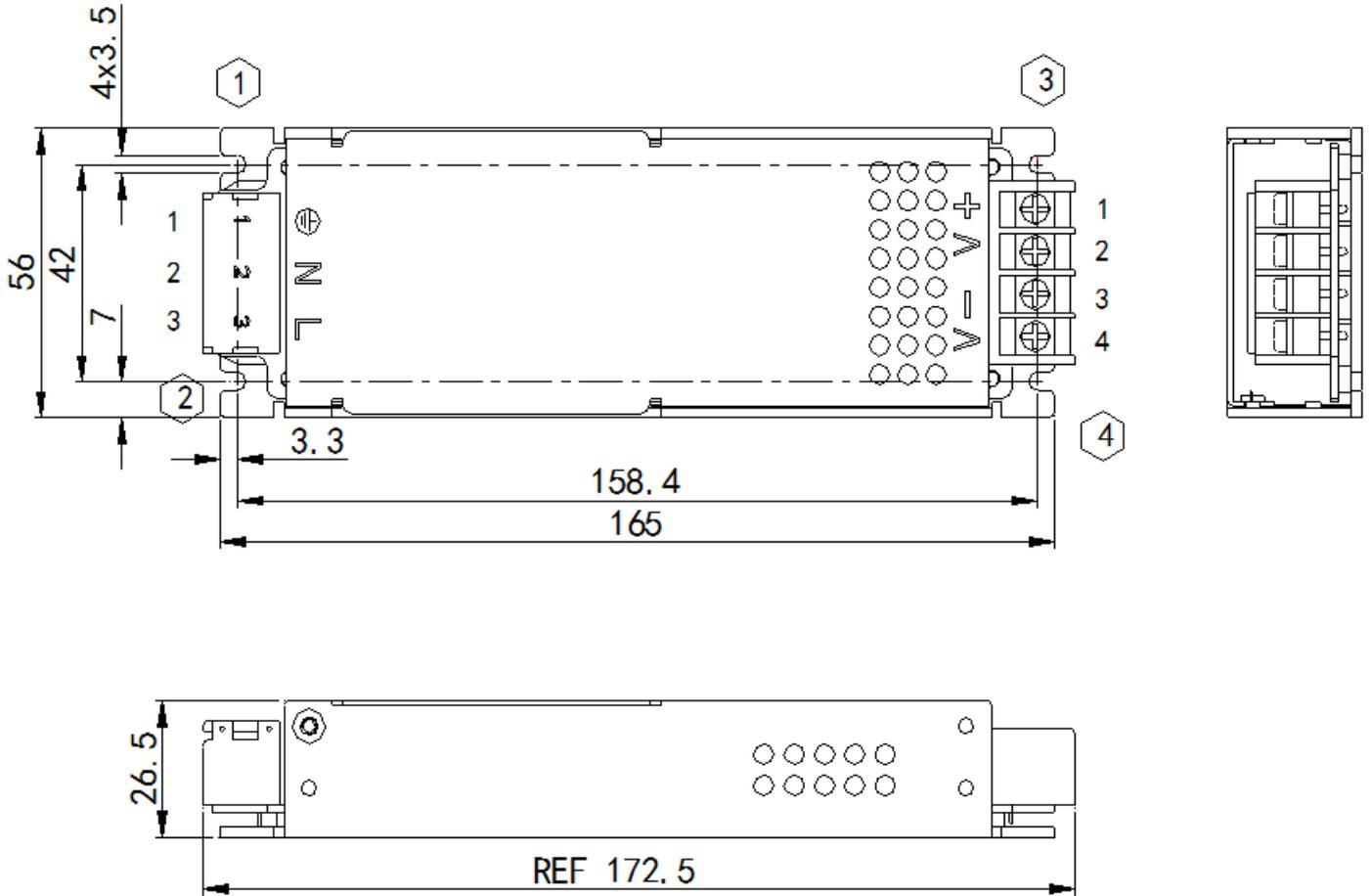

- AC input: 90VAC ~ 264VAC
- Built-in Active PFC, PF>0.95
- High efficiency, long life and high reliability
- Output protections: OCP/OVP/SCP/OPP
- No fan suitable for quiet environment
- Wide operating ambient temperature (-40°C~65°C)
- Altitude up to 5000m
- 100% full load burn-in test
- Conformal coating
- 3 years warranty

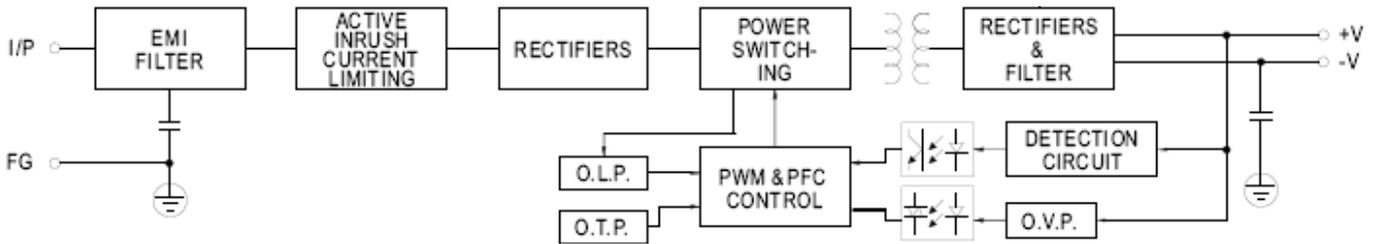

SPECIFICATION

MODEL		VAT-UP200S-4.5-55L		
OUTPUT	DC Output	4.5V		
	Rated Current	40A (PSU bottom fixed on heat sink of square > 250*250*3mm aluminum plate)		
	Current Range	Note 1	0~40A	
	Ripple and Noise	25~65°C	≤150mV	
		0~25C	≤200mV	
	Voltage Adj. Range	2.8~5.10V		
	Voltage Accuracy	±2.0%		
	Line Regulation	±0.5%		
	Load Regulation	±2.0%		
	Set-up Time	≤2S (230Vac input, Full load)		
	Hold up Time	≥10mS(220Vac input , 80% load)		
	Temperature Coefficient	±0.03%/°C		
Overshoot	<5%			
INPUT	Voltage Range	90Vac~264Vac		
	Frequency Range	47Hz~63Hz		
	Efficiency (Typical)	89%(230Vac input ,full load)		
	AC Current (max.)	<3A		
	Inrush Current (Typical)	<80A@220Vac Cold start		
	Power factor	PF>0.98/120VAC & PF>0.95/230VAC (at full load)		
PROTECTION	Over Power	202.5W~270W, Hiccup, auto recovery		
	Over Voltage	5.2~6V, constant voltage, auto recovery		
	Over Current	45A~60A, Hiccup, 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, 63Hz)		
	Isolation Resistance	10M ohms		
	EMI Conduction	Compliance to EN55022, EN55024, FCC PART 15 CLASS A		
	EMI 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)	165*55*26.5mm		
	Packing	16pcs/CTN		
	Cooling method	PSU bottom fixed on heat sink of square > 250*250*3mm aluminum plate or forced air convection		

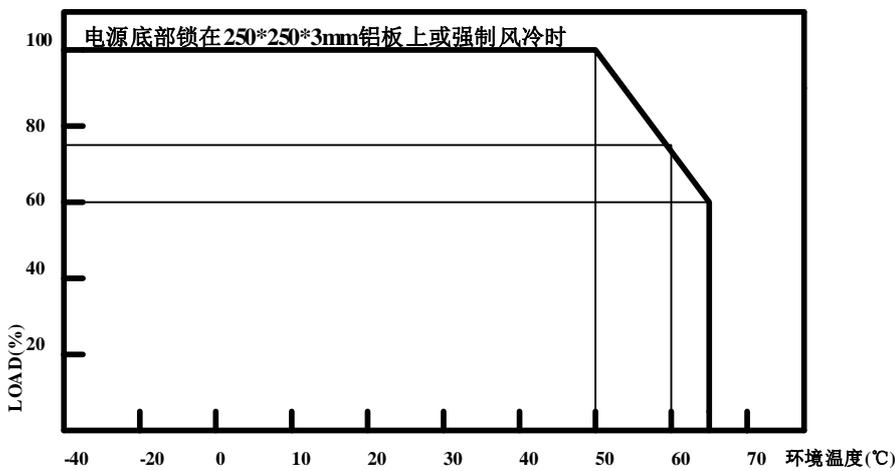
NOTE

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


Block Diagram

Derating Curve (PSU fixed to the heat sink of customer's system ,heat sink square>250*250*3mm aluminum plate)

Derating Curve 负载-环境温度降额曲线



输入电压-负载降额曲线 Ta=25°C

