


Features:

- Universal AC input (90~264Vac)
- With Active PFC, PF>0.95
- Surge 300Vac for 60S
- High Efficiency, long life and High reliability
- Output protections: OLP/OVP/SCP/OTP/OPP
- 1+1 parallel function, current sharing
- Wide operating ambient temperature (-40°C~65°C)
- Operating altitude up to 5000m
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test
- Fanless, quiet working
- PCB with conformal coating
- 3 years warranty

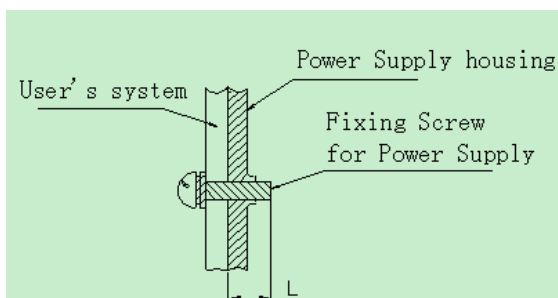
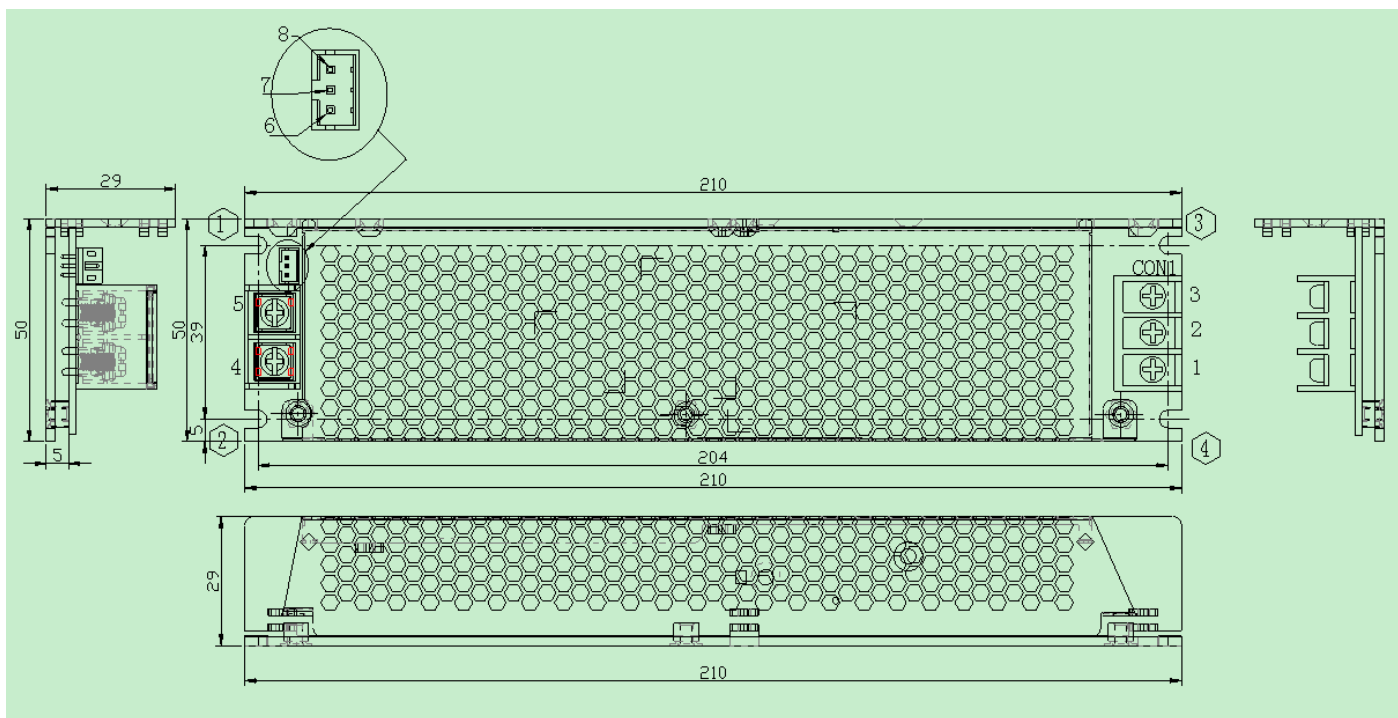

SPECIFICATION

MODEL		VAT-UP200S-4.6-P	VAT-UP200S-5-P	
OUTPUT	DC Output	4.6V	5V	
	Rated Current	40A	40A	
	Current Range Note 1	0~40A	0~40A	
	Peak load	50A (50mS, 220Vac input)	48A (50mS, 220Vac input)	
	Ripple and Noise Note 2	0~65°C	≤150mV	≤150mV
	Voltage Accuracy@-20~65C	±3%	±3%	
	Line Regulation/	±0.5%		
	Load Regulation	±2%		
	Set-up Time @ 25°C	≤2S (220Vac input, 40A)		
	Hold up Time	≥5mS (220Vac input, 32A)		
	Temperature Coefficient	±0.03%/°C		
	Overshoot and Undershoot	<5.0%		
	Parallel (current sharing)	Current-unbalance< 10% (single PS drive 40A load, the voltage of current share bus is 5~6V)		
INPUT	Voltage Range Note 3	90Vac~264Vac		
	Frequency Range	47Hz~63Hz		
	Efficiency (Typical)	110Vac	87%	89%
		220Vac	88%	90%
	AC Current (max.)	<3.5A		
	Inrush Current (Typical)	<15A@220Vac Cold start		
	Power Factor @ 25°C	>0.95 (input 220Vac, 40A)		
	Stand by power consumption	<4W (input 220Vac)		
Leakage Current	Input—output:<0.25mA Input—PG:<3.5mA (input 264Vac, 63Hz)			
PROTECTION	Over Load	44~65A , hiccup mode, auto recovery	45~55A , hiccup mode, auto recovery	
	Over Power	193~299W, hiccup mode, auto recovery	225~275W, hiccup mode, auto recovery	
	Over Voltage	5.1~7V, hiccup mode, auto recovery	5.2~6.5V, hiccup mode, auto recovery	
	Over Temperature	105°C±10°C(detect on temperature controller of PFC);shut down, auto recovery after the temperature goes down to 75°C		
	Short 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 4)	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.		
	Isolation Resistance	10M ohms		
	EMI Conduction&Radiation	Compliance to EN55022, EN55024, FCC PART 15 CLASS B		
	Harmonic current	Compliance to EN61000-3-2 CLASSD		

	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11;	
OTHERS	MTBF (MIL-HDBK-217F)	>200000h (25°C, Full load)	
	Dimension (L*W*H)	210*50*29mm	
	Packing	28PCS/CTN, 0.04CBM	
	Power Good Signal	Working properly: 3.3V	
		Working abnormally: <0.7V	
	Reverse voltage start	4.6V output	When output reverse voltage is 5~5.1V, PS starts normally.
5V output		When output reverse voltage is 5~10V, PS starts normally.	
	Cooling method	Cooling by free air convection	
NOTE	<p>1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature.</p> <p>2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 47uF parallel capacitor.</p> <p>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.</p>		

Mechanical Specification

Unit: mm



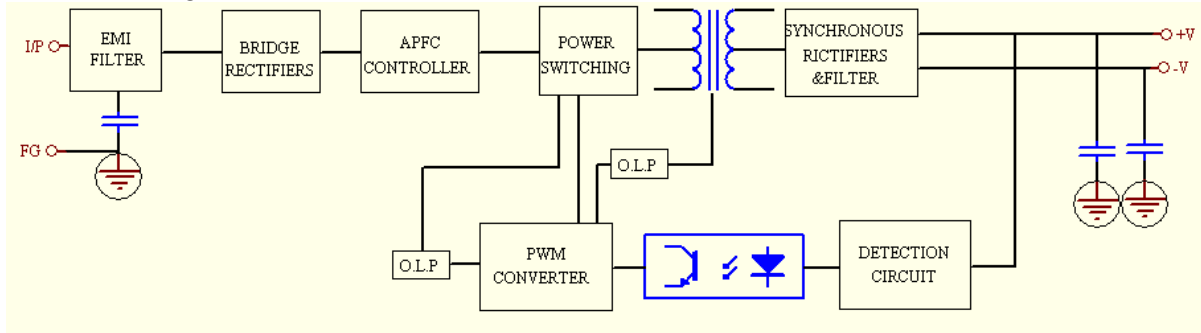
Installing type	Installing mounting holes	Screw Specs	Lmax	Installing torque
Bottom	1~4	M3	4mm	8Kgf.cm(max)

1.AC terminal blocks information			
Terminal No.	Function	Wire specs	Torque(Max)
1	PG	22-14AWG	8Kgf.cm
2	N		
3	L		

1.DC terminal blocks information			
Terminal No.	Function	Wire specs	Torque(Max)
4	V+	22-14AWG	8Kgf.cm
5	V-		

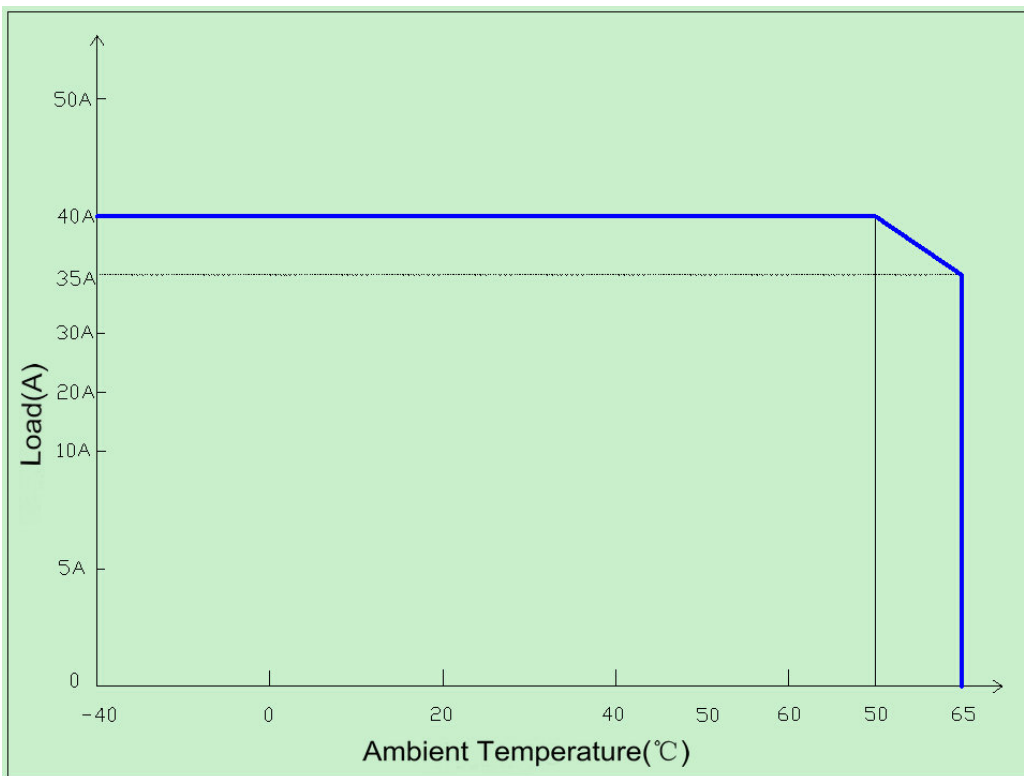
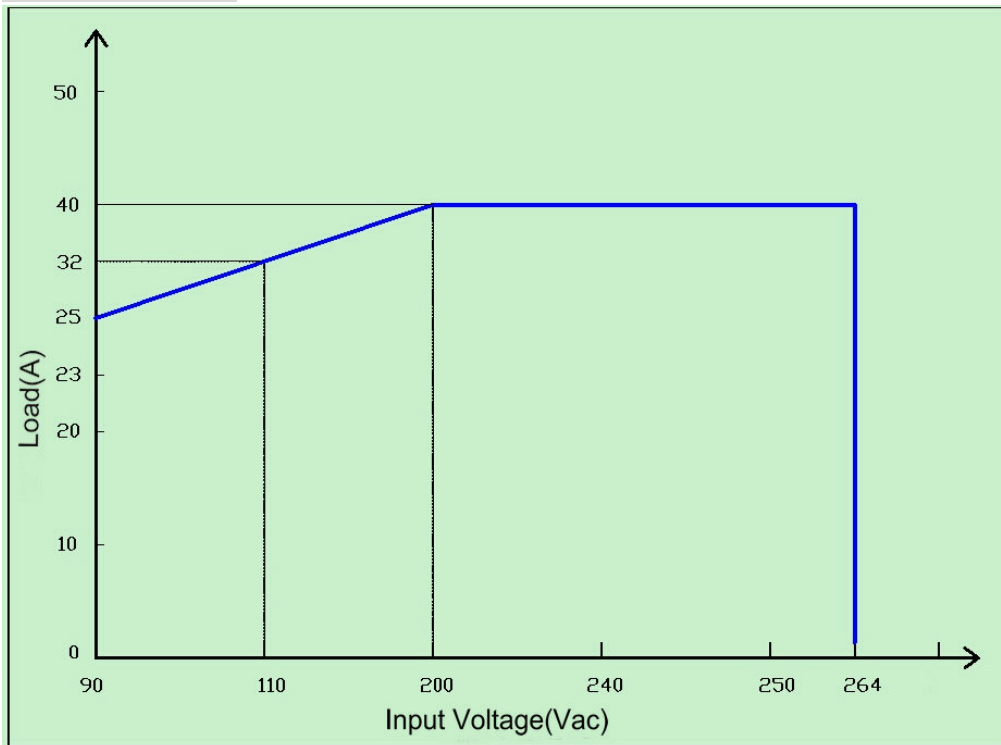
3. Signal terminal information		
Terminal No.	Function	Wire Specs
6	Power Good	22-26AWG
7	PG	
8	Current share bus	

■ **Block Diagram**



■ **Derating Curve (PSU is locked closely to customer's system, the heat sink square > 300mm*300mm*3mm aluminium plate)**

VAT-UP200S-4.6-P:



VAT-UP200S-5-P:

