
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/OPP
- 1+1 parallel function, current sharing
- Wide operating ambient temperature (-40℃~65℃)
- 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

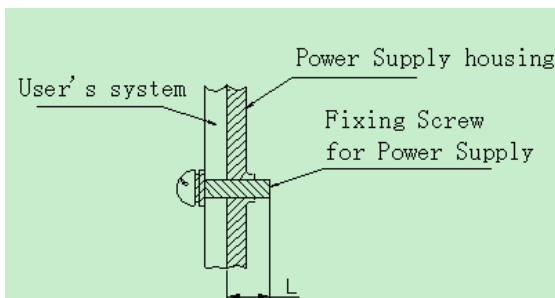
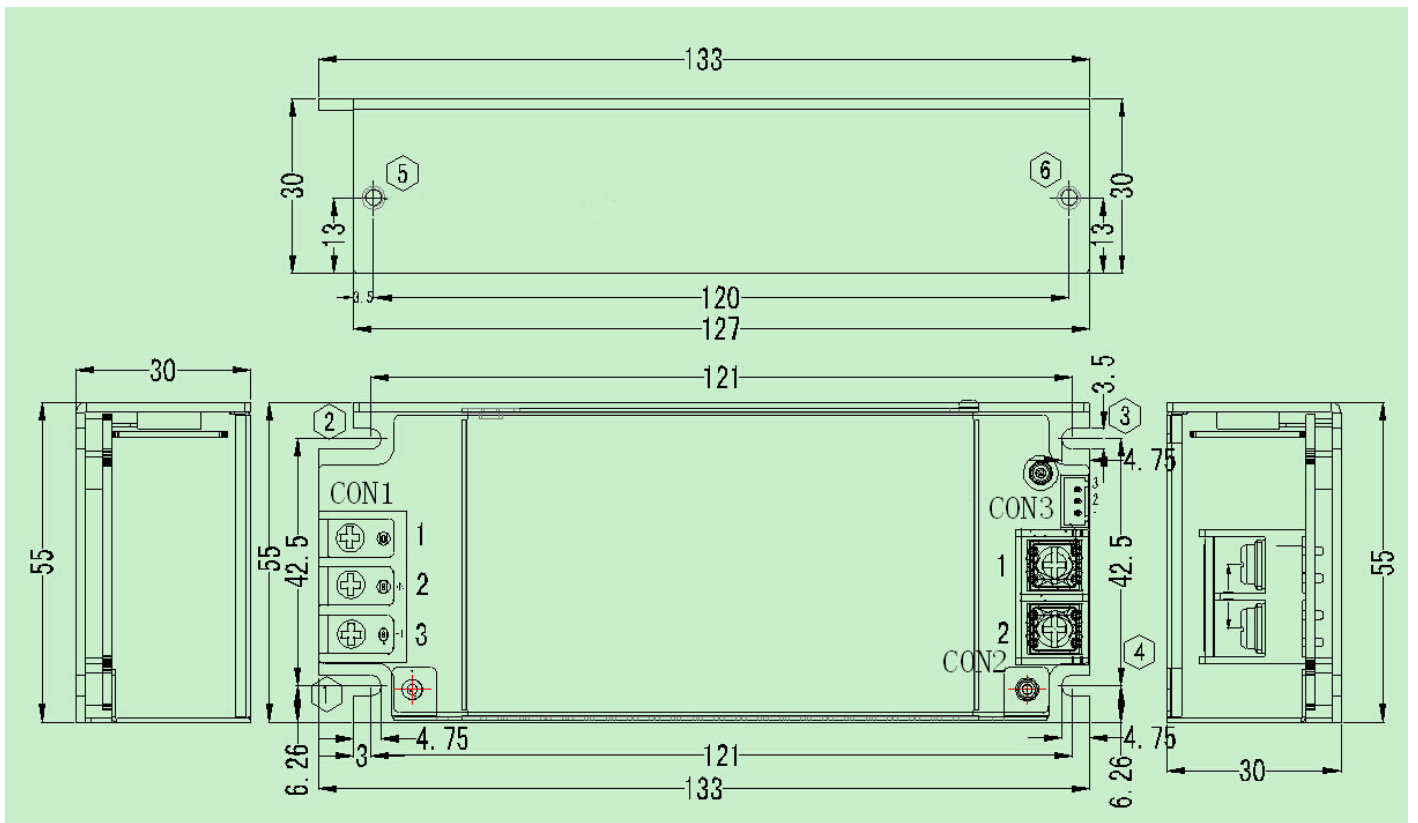

SPECIFICATION

MODEL		VAT-UP200-4.2-P-A	VAT-UP200-5-P-A	
OUTPUT	DC Output	4.2V	5V	
	Rated Current	40A	40A	
	Current Range Note 1	0~40A	0~40A	
	Peak load	50A (50mS, 220Vac input)		
	Ripple and Noise Note 2	0~65℃	≤150MV	≤200MV
	Voltage Accuracy@-40~65C	4.15~4.4V	±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	<5.0%		
	Parallel (current sharing)	Current-unbalance< 10% (single PS drive 40A load, the voltage of current share bus is 2.9~4V)		
INPUT	Voltage Range Note 3	90Vac~264Vac		
	Frequency Range	47Hz~63Hz		
	Efficiency (Typical)	86% (220Vac input, 40A)	88% (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 (input 220Vac)		
Leakage Current	Input—output:<0.25mA Input—PG:<3.5mA (input 264Vac, 63Hz)			
PROTECTION	Over Load	44~65A , hiccup mode, auto recovery	44~65A , hiccup mode, auto recovery	
	Over Power	184.8~252W, hiccup mode, auto recovery	220~325W, hiccup mode, auto recovery	
	Over Voltage	4.5~6.5V, hiccup mode, auto recovery	5.2~6.5V, constant voltage	
	Over Temperature	105℃±5℃(detect on temperature controller);shut down, auto recovery after the temperature goes down to 65℃		
	Short Circuit	Long-term mode, auto recovery		
ENVIRONMENT	Operating amb. Temp. & Hum.	-40℃~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	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 CLASS B		
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
	Power Good Signal	Working properly, port voltage: 3.0~3.5V (output current 0~1mA)
		Working abnormally, port voltage: 0~0.7V (pull-up resistor > 10K)
Cooling method	Cooling by free air convection	
NOTE	<ol style="list-style-type: none">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 & 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



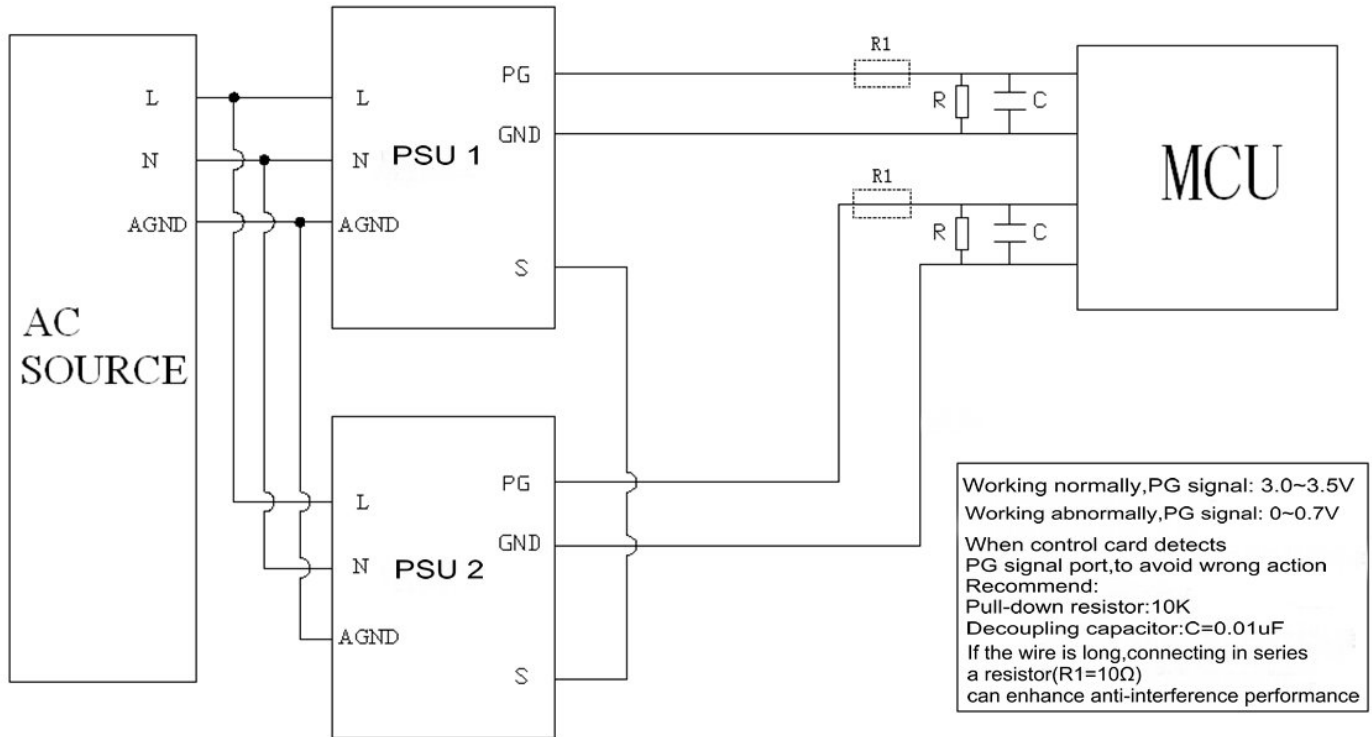
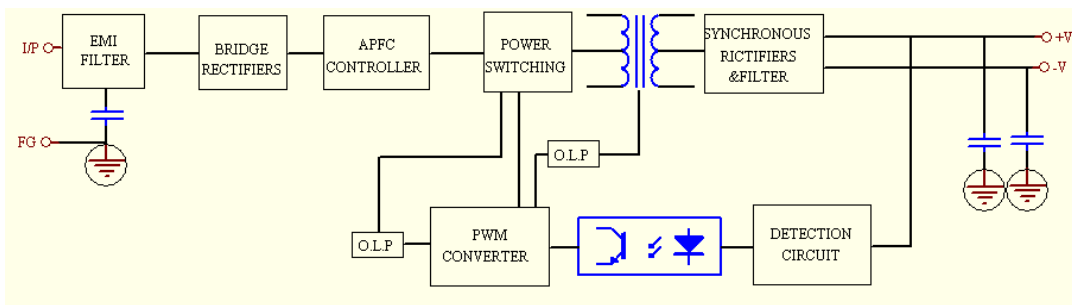
Installing type	Installing mounthing holes	Screw Specs	Lmax	Installing torque
Bottom	1~4	M3	4.0mm	8Kgf.cm(max)
Side	5~6	M3	4.0mm	8Kgf.cm(max)

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

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

3. Signal terminal information

	Terminal No.	Function	Specs
CON 2	1	Power Good	UL 94V-0 2.0mm gap 4.6MM 3P terminal
	2	PG	
	3	Current share bus	

Signal terminal instruction

Block Diagram

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

