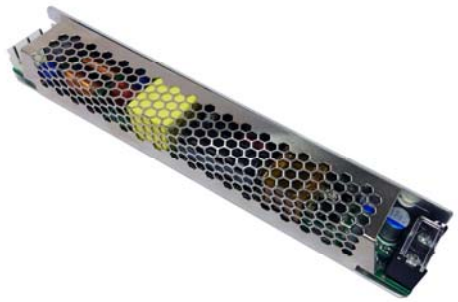
Features:

- Universal AC input
- Built-in active PFC,PF>0.95
- High efficiency, long life and high reliability
- Output protection: SCP/OLP/OVP/OPP
- Wide operating ambient temperature (-20~65℃)
- All using 105 ℃ long life electrolytic capacitor
- 100% full load burn-in test
- 3 years warranty

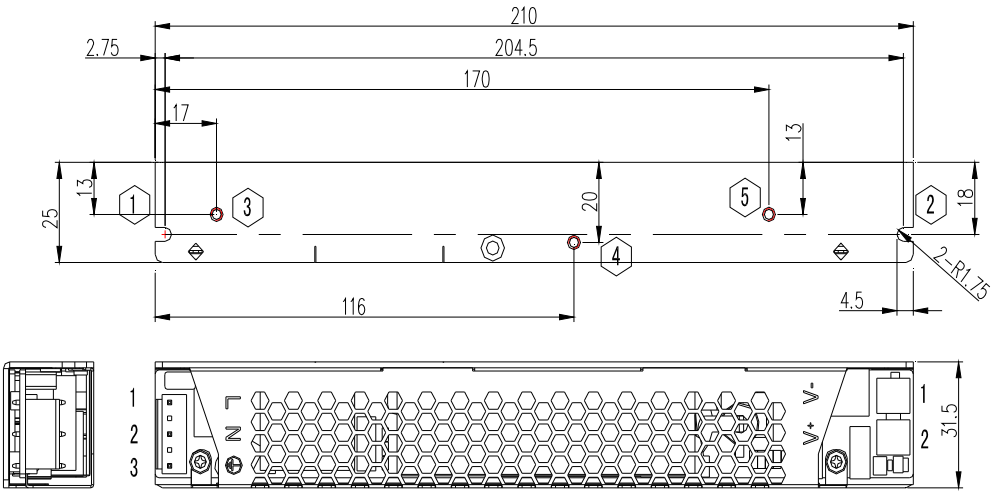


SPECIFICATION

MODEL			VAT-UP200U-5
OUTPUT	DC Output		5.0V
	Rated Current		40A
	Current Range Note 1		0~40A
	Peak load		45A (50mS, 220Vac input)
	Ripple and Noise Note 2	0~65℃	≤250mV
		-20℃	≤300mV
	Voltage ADJ. Range		/
	Voltage Accuracy		±4.0%
	Line Regulation		±0.5%
	Load Regulation		±2.0%
	Set-up Time		≤2S (220VAC input, 40A)
	Hold up Time		≥5mS (220Vac input, 32A)
	Temperature Coefficient		±0.03%/℃
	Overshoot and Undershoot		<5.0%
INPUT	Voltage Range		90Vac~264Vac
	Frequency Range		47Hz--63Hz
	Power Factor(Typical)		PF＞0.95/230VAC full load
	Efficiency (Typical)		≥89%（220VAC, 40A） ≥87%（110VAC, 30A）
	AC Current (max.)		<2A
	Inrush Current (Typical)		<60A@230Vac Cold start
	Leakage Current		Input—output:<0.25mA Input—PG:<3.5Ma (264Vac, 63Hz)
PROTECTION	Over Load		44~65A, Hiccup mode, auto recovery
	Over power		220~320W, hiccup mode, auto recovery
	Short Circuit		Long-term mode, auto recovery
ENVIRONMENT	Operating amb. Temp. & Hum.		-20℃~65℃; 20%~90%RH No condensing (refer to the derating curve)
	Storage Temp. & Hum.		-40℃~85℃; 10%~95%RH No condensing
	Vibration		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X,Y, Z axes
	Withstand Voltage		Primary-Secondary: 3.0KVac; ≤10mA .Primary-PG: 1.5KVac; ≤10mA. Secondary-PG: 0.5KVDC; ≤10mA.
	Isolation Resistance		10M ohms
SAFETY&EMC (Note 3)	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; heavy industry level
OTHERS	MTBF (MIL-HDBK-217F)		More than 100,000Hrs (25℃, Full load)
	Dimension (L*W*H)		210×31.5×30mm
	Packing		49PCS/CTN, 15KGS, 0.04CBM
	Cooling method		Cooling by air
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.		

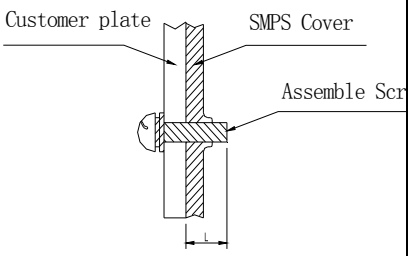
■ Mechanical Specification

unit: mm



Mounting Position	Mounting Type	Mounting Position No.	Screw Type	Lmax	Mounting Torque(max)
Bottom Mounting	Fixing by screws	① — ②	M3	4mm	6.5Kgf.cm (max)
	Fixing by screws	③ — ⑤	M3	4mm	6.5Kgf.cm (max)

Notice:
1, Dimensional Unit: mm
2, Unmarked Tolerance is GB/T 1804-m
3, Choose the best installation method.



Remarks: For safety purpose, the length of screw inside thepower supply case shall comply with the above table (refer the right drawing)

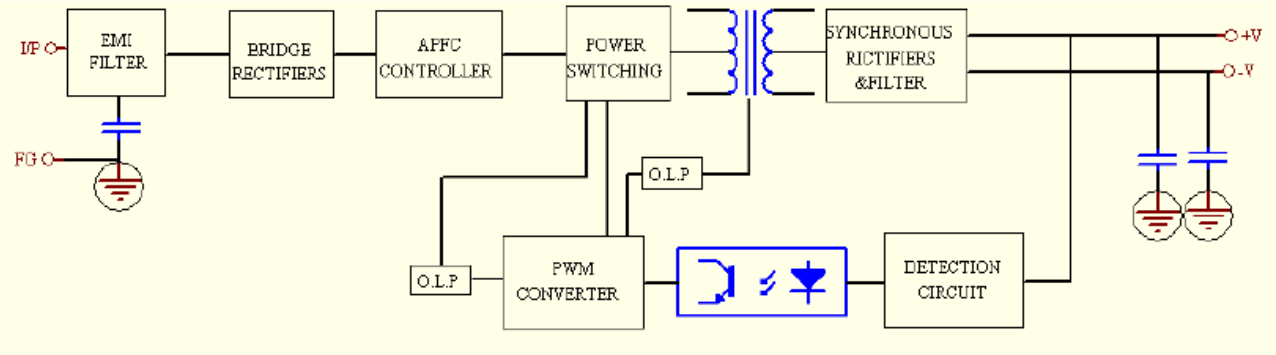
1, Instructions for the AC input connectors

Part No.	Input	Connector
1	L	Pitch 3.96mm/5pin terminal row/cut 2、4pin
2	N	
3	⏚	

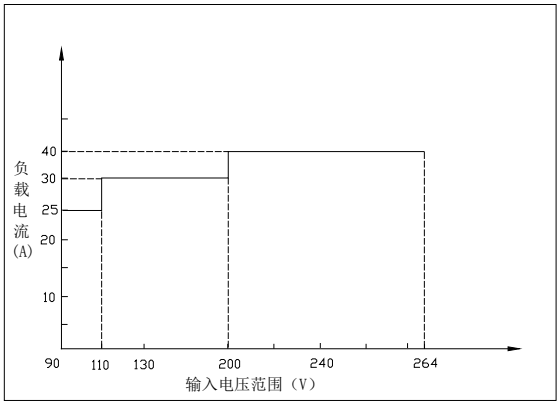
2, Instructions for the DC output connectors

Part No.	Output	Connector	Wire spec.	Max. torque
1	V+	Terminal	14-26AWG	7.5Kgf.cm (max)
2	V-			

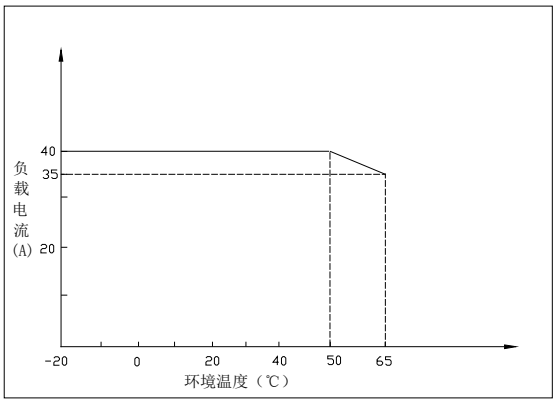
■ Block Diagram



■ Derating Curve(Power supply fixed to the heat sink of 210*500*3mm aluminum plate)



Current of load vs. Input voltage



Current of load vs. Ambient temperature