200Watts Single Output PSU for LED display VAT-A200L-5-D

Features:

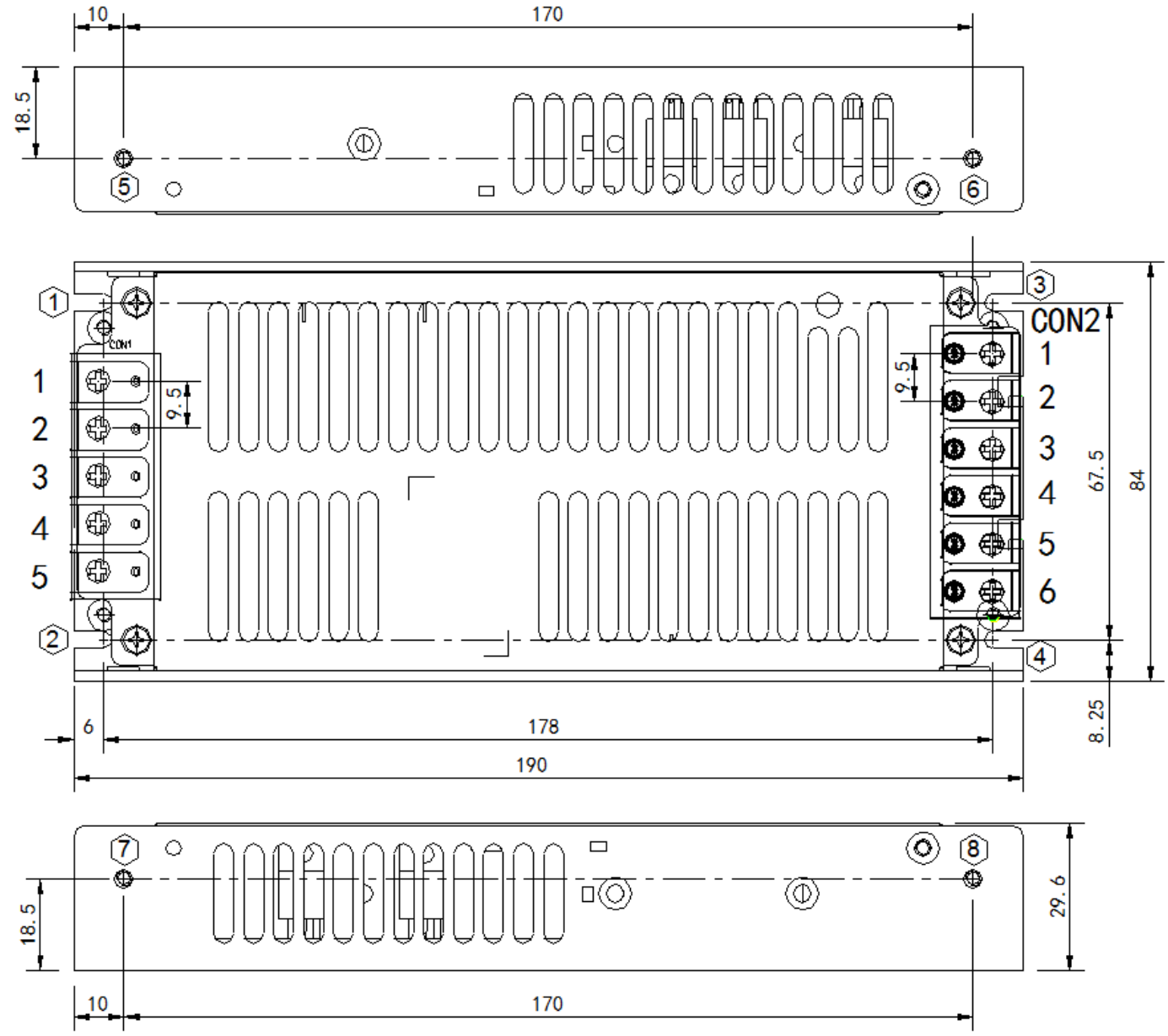
- High AC input (180-264Vac)
- High Efficiency up to 86%
- Output protections: SCP/OLP/OPP
- Wide operating ambient temperature (-40℃~65℃)
- Operating altitude up to 5000m
- All using 105℃ long life electrolytic capacitors.
- Can work @-40℃, 220Vac input, full load
- 100% full load burn-in test
- 1 year warranty

SPECIFICATION

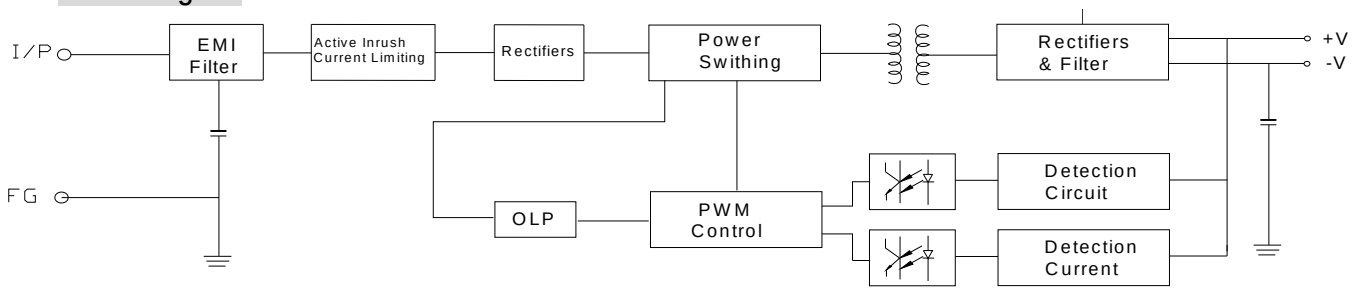
MODEL			VAT-A200L-5-D
OUTPUT	DC Output		5V
	Rated Current		40A
	Current Range Note 1		0~40A
	Peak load		44A (last 100mS, 220Vac input)
	Ripple and Noise Note 2	25~65℃	≤150mV
		0~25℃	≤200mV
	Voltage ADJ. Range		3.3~5.0V
	Voltage Accuracy		±2.0%
	Line Regulation		±0.5%
	Load Regulation		±2.0%
	Set-up Time		≤2S (220Vac input, full load)
	Hold up Time		≥10mS (220Vac input, full load)
	Temperature Coefficient		±0.03%/℃
	Overshoot		<5.0%
INPUT	Voltage Range		180Vac~264Vac
	Frequency Range		47Hz~63Hz
	Efficiency (Typical)		≥86%(220Vac input, 80% load)
	AC Current (max.)		<3A
	Inrush Current (Typical)		<50A@220Vac Cold start
	Leakage Current		Input—output:<0.25mA Input—PG:<3.5 mA (264Vac input, 63Hz)
PROTECTION	Over Power		210~300W, hiccup mode, auto recovery
	Over Current		42~60A, hiccup mode, auto recovery
	Shorted Circuit		Long-term mode, auto recovery
ENVIRONMENT	Operating amb. Temp. & Hum.		-40℃~65℃; 20%~90%RH No condensing (pls refer to 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
	EMS Immunity		Compliance to EN61000-4-2,3,4,5,6,8,11
OTHERS	MTBF (MIL-HDBK-217F)		More than 100,000Hrs (25℃, Full load)
	Dimension (L*W*H)		190×84×30mm
	Packing		24pcs/CTN
	Cooling method		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 & 10uF parallel capacitor. 3. The SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives.		

■ Mechanical Specification

Unit: mm



■ Block Diagram



■ Derating Curve