120Watts Single Output PS-120-24

Features:

- Universal input 80~264Vac or 113~370Vdc
- 84W free air convection, 120W with 10CFM forced air
- High Efficiency, long life, high reliability
- Output protections: SCP/OVP/OCP/OPP
- Wide operating ambient temperature (-30℃~70℃)
- Operating altitude up to 4000m
- All using 105℃ long life electrolytic capacitors.
- 100% full load burn-in test
- Meet Class I and Class II(no ground required) device
- No load power consumption ≤0.35W
- Built-in 12V/0.5A auxiliary output
- 4"*2" Compact size
- 3 years warranty

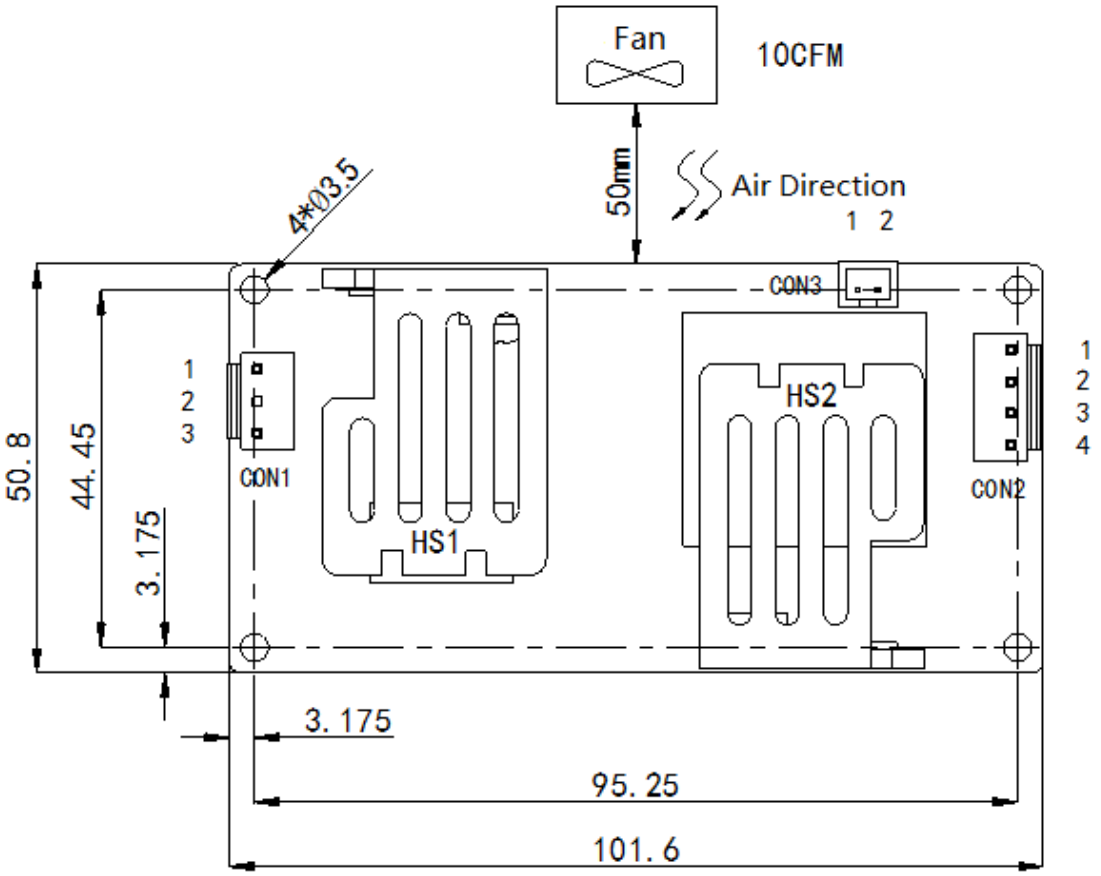
SPECIFICATION

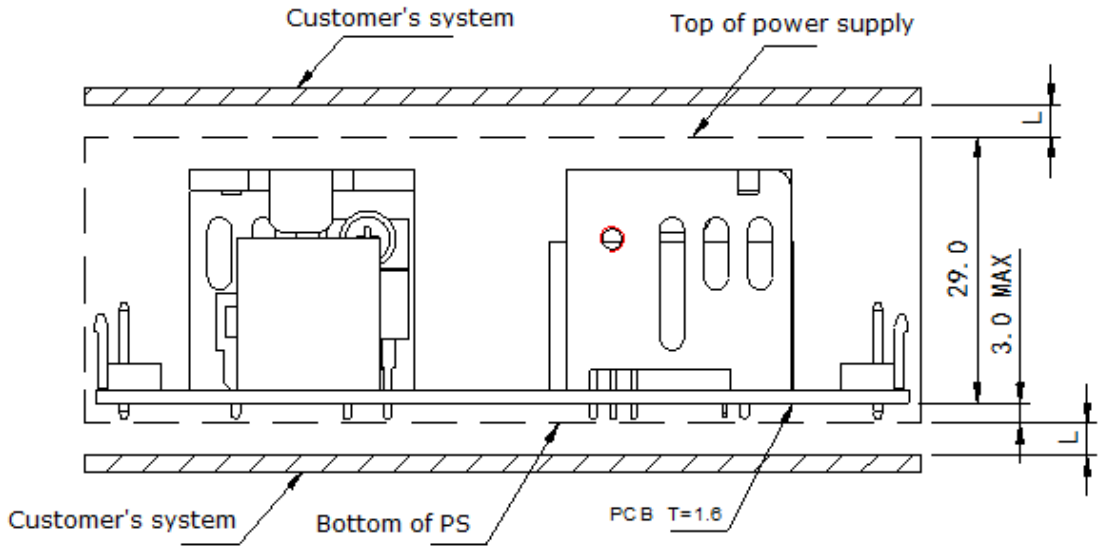
MODEL			PS-120-24
OUTPUT	DC Output		24V
	Rated Current (free air convection)		3.5A
	Rated Current (10CFM forced air)		5A
	Ripple and Noise Note 2	0~70℃	≤150mV
		-30℃~0℃	≤240mV
	Voltage ADJ. Range		22.8~25.2V
	Voltage Accuracy		±1.0%
	Line Regulation		±0.5%
	Load Regulation		±1.0%
	Set-up Time		≤0.5S (110/220Vac input, Full load)
	Hold up Time		≥10Ms @110Vac input ; ≥40Ms @220Vac input Full load
	Temperature Coefficient		±0.03%/℃
	Overshoot and Undershoot		<±5.0%
INPUT	Voltage Range Note 3		80Vac~264Vac; 113~370Vdc
	Rated input voltage range		100~240Vac; 133~308Vdc
	Frequency Range		47Hz-63Hz
	Efficiency (Typical)		90%
	AC Current (max.)		≤2.5 A/110VAC ≤1.5 A/220VAC
	Inrush Current (Typical)		≤30 A/110VAC ≤60A/220Vac Cold start
	Leakage Current		Input to PG: ≤1mA Input to output: ≤0.5mA (264Vac input, 63Hz)
PROTECTION	Over Current		5.75~7.5A, hiccup mode, auto recovery
	Over Power		138~180W, hiccup mode, auto recovery
	Over Voltage		26.4~31.2V, Constant voltage, auto recovery
	Shorted Circuit		Long-term mode, auto recovery
ENVIRONMENT	Operating amb. Temp. & Hum.		-30℃~70℃; 20%~90%RH No condensing (refer to the derating curve)
	Storage Temp. & Hum.		-40℃~85℃; 10%~95%RH No condensing
SAFETY &EMC (Note 3)	Safety Standards		Meet UL62368, EN62368
	Withstand Voltage		Primary-Secondary:3.0KVac/10mA; Primary to PG: 1.5KVac/10mA; Secondary-PG:0.5KVdc/10mA
	Isolation Resistance		≥100M ohms
	EMI Conduction&Radiation		Compliance to EN55032 Class B
	Harmonic Current		Compliance to EN61000-3-2, Class A
	EMS Immunity		Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level
OTHERS	MTBF (MIL-HDBK-217F)		More than 200,000Hrs (25℃, Full load)
	Dimension (L*W*H)		101.6×50.8×29mm (4"*2"*1.14")

	Packing	45PCS/CTN, 15.2KGS, 0.023CBM
	Cooling method	84W free air convection; 120W with 10CFM forced 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 & 10uF 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



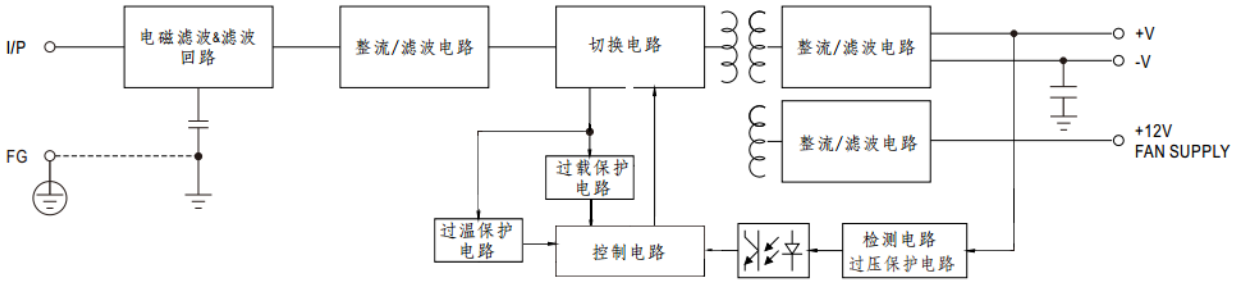


1.Input Terminal Definition		
CON1	1	L
	2	/
	3	N

2.Output Terminal Definition		
CON2	1~2	3.96 Pitch/4Pin
	3~4	

3.Fan Terminal Definition			
CON3	1	DC COM(FAN-)	2.54 Pitch/2Pin
	2	+12V(FAN+)	

■ Block Diagram



■ Derating Curve