

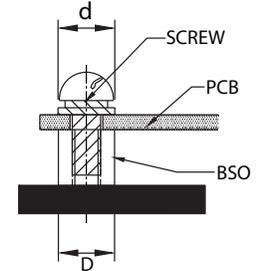
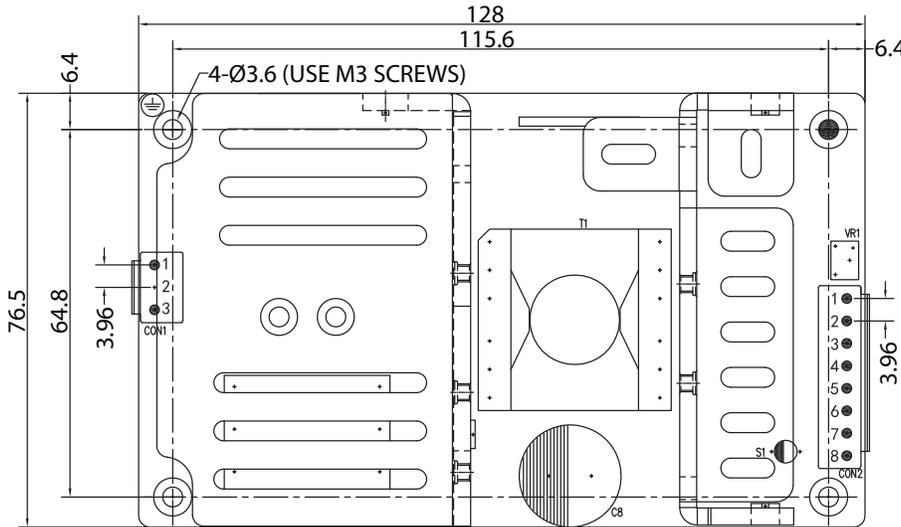
**Features:**

- Universal AC input/ Full range
- Built-in active PFC function, PF>0.95
- Withstand 300VAC Surge Input for 5 Sec
- High Efficiency, up to 90%
- Output Protections: OLP/OVP/OTP/SCP
- Wide operating ambient temperature (-20°C~70°C)
- Free air convection (150W), 20.5CFM forced air (200W)
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test

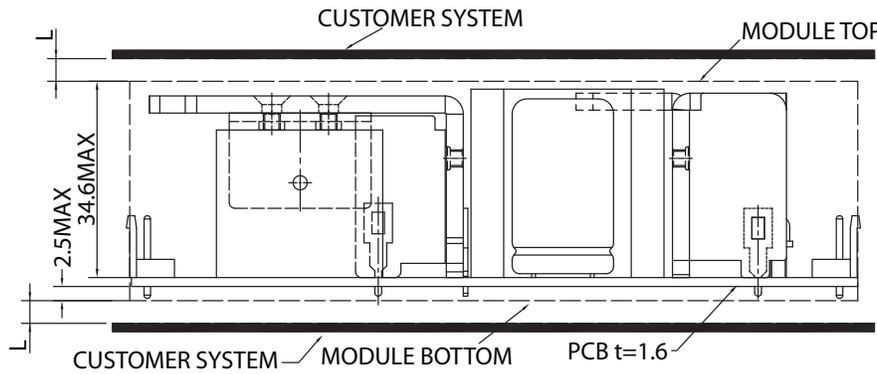


Model	QPSF-200-12	QPSF-200-24	QPSF-200-27	QPSF-200-48
Output Characteristics				
DC Output	12V	24V	27V	48V
Rated Current	16.7A	8.4A	7.4A	4.2A
Current Range(convection) (Note 1)	0~12.5A	0~6.25A	0~5.5A	0~3.2A
Current Range(20.5cfm fan) (Note 1)	0~16.7A	0~8.4A	0~7.4A	0~4.2A
Ripple and Noise (Note 2)	0~70°C	≤120mVp-p	≤200mVp-p	≤100mVp-p
	-20~0°C	≤200mVp-p	≤200mVp-p	≤150mVp-p
Voltage ADJ. Range	10V~14V	21V~27V	24.3V~29.7V	42V~52.8V
Voltage Accuracy	±2.0%	±1.0%	±1.0%	±1.0%
Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation	±2.0%	±1.0%	±1.0%	±1.0%
Set-up Time	≤4s (115VAC input, full load) ≤2s (230VAC input, full load)			
Hold-up Time	≥16ms/150W ≥10ms/200W (115/230VAC input, full load)			
Temperature Coefficient	±0.03%/°C			
Overshoot and Undershoot	<5.0%			
Input Characteristics				
Voltage Range	90VAC~264VAC, 120VDC~370VDC			
Frequency Range	47Hz-63Hz			
Power Factor (Typical)	PF>0.98/115VAC PF>0.95/230VAC			
Efficiency (Typical) 230VAC Input	88.5%	89%	89%	89%
AC Current (max)	<3.0A			
Inrush Current (Typical)	<30A@115VAC Cold start <50A@230VAC Cold start			
Leakage Current	Input-Output: <0.25mA Input-PG: <3.5mA			
Protection				
Over Load (OLP)	18A~30A	9A~12A	7.77A~11.1A	4.5A~6.3A
	Protection Type: Hiccup mode, auto recovery			
Over Voltage (OVP)	15V~20V	30V~36V	31V~40.5V	55V~70V
	Protection Type: Hiccup mode, auto recovery			
Short Circuit (SCP)	Long-term mode, auto recovery			
Environmental Characteristics				
Operating Amb. Temp. & Hum	-20°C~70°C; 20%~90% RH Non-Condensing			
Storage Temp. & Hum	-40°C~85°C; 10%~95% RH Non-Condensing			
Safety Standards	GB4943; EN60950-1: 2006			
Withstand Voltage	Primary-Secondary: 3.0KVAC;≤10mA. Primary-PG: 1.5KVAC;≤10mA. Secondary-PG: 0.5KVDC;≤10mA			
Isolation Resistance	≥100M ohms			
EMI Conduction & Radiation	Compliance to EN55022, EN55024(CISPR22) Class B			
Harmonic Current	Compliance to EN61000-3-2, Class D			
EMS Immunity	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV55024, light industry level, criteria A			
General Characteristics				
MTBF (MIL-HDBK-217F)	More than 100,000Hrs (25°C, Full load)			
Dimension (LxWxH)	128x76.5x34.6mm			
Packing	21PCS/CTN. G.W: 9.4kgs			
Cooling Method	Cooling by free air convection (150W Output) / Cooling by forced air (Output 200W)			
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 0.1uF & 47uF 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 SPECIFICATIONS



PLEASE USE M3 SCREWS
WASHER $d \leq 7\text{mm}$ AND $D \leq 7\text{mm}$

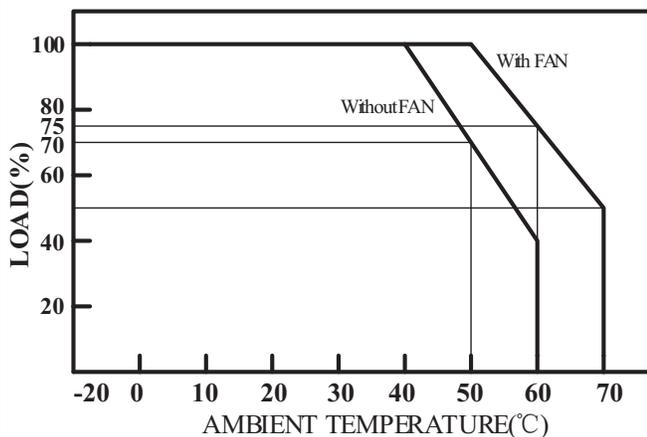


THE DISTANCE BETWEEN CUSTOMER PLATE AND TOP OF THE POWER SUPPLY $L \geq 4\text{mm}$; IF $L \leq 4\text{mm}$, ISOLATION FILM OR MYLAR WILL BE NEEDED

INSTALLATION SCREW TORQUE: $\leq 6.0\text{Kg}\cdot\text{cm}$

ITEM	CONNECTOR	MATING HOUSING	TERMINAL
AC IN (CON1)	LANDWIN 3961P0300T (CENTER PIN REMOVED)	LANDWIN 3960S OR JST VHR	LANDWIN 3963T011R OR JST SVH-21T-P1.1
DC OUT (CON2)	LANDWIN 3961P0800T	OR MOLEX 51144	OR MOLEX 50539

DERATING CURVE



AC CONNECTION

CON1	Pin No.	Assignment	Specs
	1	AC-L	
2			
3	AC-N		

DC CONNECTION

CON2	Pin No.	Assignment	Specs
	1,2,3,4	DC output -V	
5,6,7,8	DC output +V		

UNIT: mm