

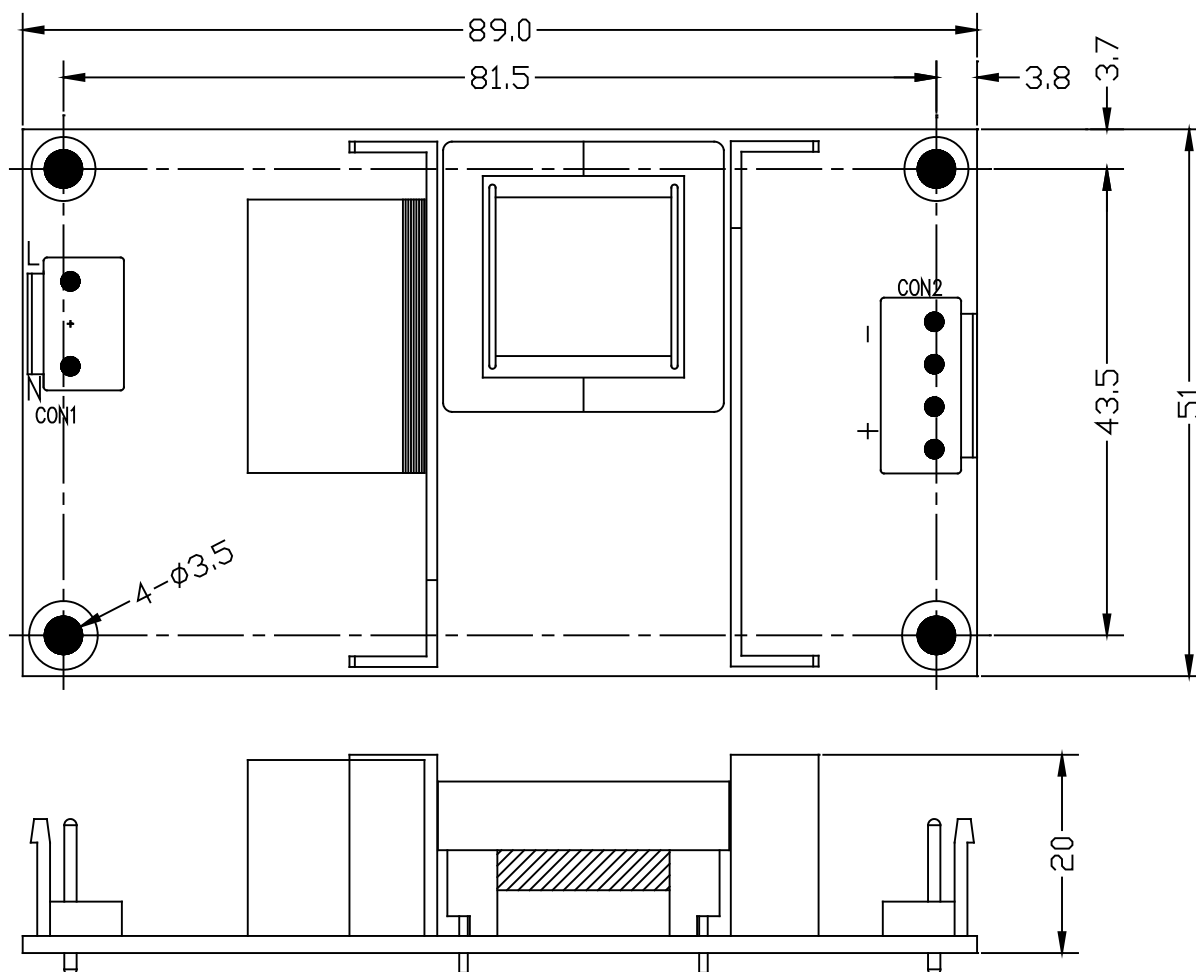
**Features:**

- Universal AC input/ Full range
- Wide Operating Ambient Temperature (-20°C~60°C)
- High Efficiency, and High Reliability
- Ultra-minature size, low profile
- Output Protections: OLP/OVP/SCP
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test



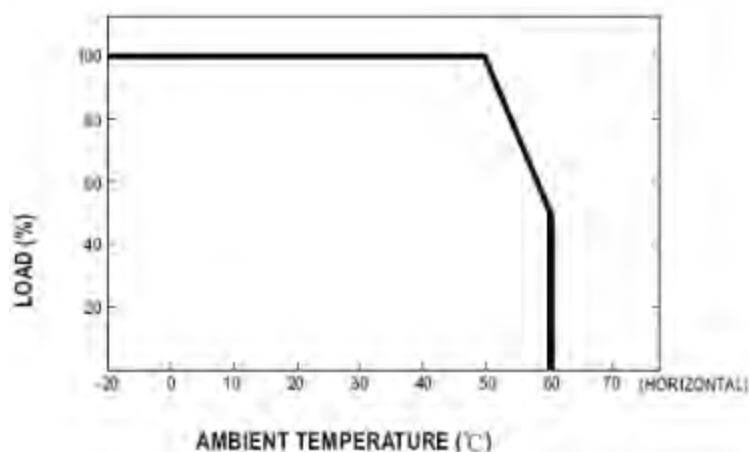

Model		QPS-20-3.3	QPS-20-5	QPS-20-12	QPS-20-15	QPS-20-24	QPS-20-48
Output Characteristics							
DC Output		3.3V	5V	12V	15V	24V	48V
Rated Current		4A	4A	1.67A	1.34A	0.84A	0.42A
Current Range		0~4A	0~4A	0~1.67A	0~1.34A	0~0.84A	0~0.42A
Ripple and Noise	0~60°C	<50mV	<50mV	<50mV	<50mV	<50mV	<100mV
	-20~0°C	<75mV	<75mV	<75mV	<75mV	<75mV	<100mV
Voltage ADJ. Range		3.1~3.6V	4.4~5.6V	11.1~13.1V	13.7~16.1V	22.0~25.4V	45.6~50.4V
Voltage Accuracy		±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
Line Regulation		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load Regulation		±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
Set-up Time		<2.0s (115VAC input, full load); <1.0s (230VAC input, full load)					
Hold-up Time		>10ms (115VAC input, full load); >20ms (230VAC input, full load)					
Temperature Coefficient		±0.03%/°C					
Overshoot and Undershoot		<5.0%					
Input Characteristics							
Voltage Range		90VAC~264VAC, 127VDC~370VDC					
Frequency Range		47Hz-63Hz					
Efficiency (Typical)	115VAC Input	69%	76%	79%	80%	80%	80%
	230VAC Input	68%	75%	78%	79%	79%	79%
AC Current (max)		<0.5A					
Inrush Current (Typical)		20A@115VAC Cold start 40A@230VAC Cold start					
Leakage Current		Input-Output: <0.35mA Input-PG: <0.75mA					
Protection							
Over Load (OLP)		105%~150% of rated output power, hiccup mode, auto recover					
Over Voltage (OVP)		110%~140% of rated output voltage, constant voltage					
Short Circuit (SCP)		Long-term mode, auto recovery					
Environmental Characteristics							
Operating Amb. Temp. & Hum		-20°C~60°C; 20%~90% RH Non-Condensing					
Storage Temp. & Hum		-40°C~85°C: 10%-95% RH Non-Condensing					
Safety Standards		UL60950-1; 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(CISPR22) Class B					
Harmonic Current		Compliance to EN61000-3-2, 17625.1-2003					
EMS Immunity		Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; ENV50204, light industry level, criteria A					
General Characteristics							
MTBF (MIL-HDBK-217F)		More than 200,000Hrs (25°C, Full load)					
Dimension (LxWxH)		89x51x20mm					
Packing		60PCS/CTN. G.W: 7.6kgs					
Cooling Method		Cooling by free air convection					

MECHANICAL SPECIFICATIONS



ITEM	CONNECTOR	MATING HOUSING	TERMINAL
AC IN (CON1)	LANDWIN 3961P0300T (CENTER PIN REMOVED)	LANDWIN 3960S OR JST VHR OR MOLEX 51144	LANDWIN 3963T011R OR JST SVH-21T-P1.1 OR MOLEX 50539
DC OUT (CON2)	LANDWIN 3961P0400T		

DERATING CURVE



UNIT: mm

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Qualtek:

[QPS-20-5](#) [QPS-20-12](#) [QPS-20-15](#) [QPS-20-24](#) [QPS-20-48](#)