

- Universal AC input
- Built-in active PFC function, PF>0.95
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Fixed switching frequency at 45KHz
- With power good signal output(Optional)



Model Number	Output Volts	Output Amps	Ripple & Noise	Line Reg	Load Reg	Volt Tolerance	Min Load
Quad OUTPUT							
PQ-100B	5 Volts(DC)	10 Amps	80mVpk-pk	±1.0%	±2.0%	±3.0%	2~10Amps
	12 Volts(DC)	3.5Amps	250mVpk-pk	±5.0%	±5.0%	±12%	0.5~4.5Amps
	-5 Volts(DC)	0.5 Amps	80mVpk-pk	±1.0%	±1.0%	±6.0%	0~1.0Amps
	-12Volts(DC)	0.5 Amps	120mVpk-pk	±1.0%	±1.0%	±6.0%	0~1.0Amps
PQ-100C	5 Volts(DC)	8.0 Amps	80mVpk-pk	±1.0%	±1.0%	±2.0%	2.0~8.0Amps
	15 Volts(DC)	3.5 Amps	150mVpk-pk	±3.0%	±5.0%	±6.0%	0.5~4.0Amps
	-5 Volts(DC)	0.5 Amps	80mVpk-pk	±1.0%	±1.0%	±6.0%	0~1.0Amps
	-15 Volts(DC)	0.5 Amps	150mVpk-pk	±1.0%	±1.0%	±6.0%	0~1.0Amps
PQ-100D	5 Volts(DC)	5 Amps	80mVpk-pk	±1.0%	±1.0%	±2.0%	2.0~5.0Amps
	12 Volts(DC)	2 Amps	120mVpk-pk	±3.0%	±5.0%	±6.0%	0.5~4.5Amps
	24 Volts(DC)	2 Amps	180mVpk-pk	±1.0%	±5.0%	±10%	0.4~2.0Amps
	-12 Volts(DC)	0.5 Amps	120mVpk-pk	±1.0%	±1.0%	±6.0%	0~1.0Amps
PQ-100E	5 Volts(DC)	8.0 Amps	80mVpk-pk	±1.0%	±1.0%	±2.0%	2.0~8.0Amps
	12 Volts(DC)	3.0 Amps	120mVpk-pk	±3.0%	±5.0%	±6.0%	0.5~3.0Amps
	15 Volts(DC)	0.6 Amps	150mVpk-pk	±1.0%	±1.0%	±6.0%	0~1.0Amps
	24 Volts(DC)	0.6 Amps	120mVpk-pk	±1.0%	±1.0%	±6.0%	0~1.0Amps

100W Quad Output Switching Power Supply

PQ100 series

INPUT SPECIFICATIONS

Input Voltage Range	100-264VAC / 141-370 Volts(DC) (90~100VAC 90% load max)
Frequency Range	47~63Hz
Inrush Current, typ: (cold start)	50 Amps
Input Current	3.0Amps @115VAC 1.5Amps @230VAC
Leakage current	< 1.0mAmps / 240VAC
Power Factor	PF >0.95 / 230VAC > 0.98 / 115VAC

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	See Selection Chart
Load Regulation	See Selection Chart
Voltage Tolerance (Note 2)	See Selection Chart
Ripple/Noise (Note 1)	See Selection Chart
Hold Up Time @ FL	80mS
Setup, Rise Time @ FL	1200mS, 50mS
Over Voltage Protection	5Volts(DC): 5.75~6.75Volts(DC) Hiccup mode, auto-recover
Over Current Protection	105~135% rated output power Hiccup mode, auto-recover
DC Voltage Adjust	5Volts(DC): 4.75~5.5Volts(DC)

GENERAL SPECIFICATIONS

Safety	UL60950-1 TUV EN60950-1 Approved
Insulation Resistance	≥ 100MΩ / 500Volts(DC)
EMI	Compliance to EN55022B (CISPR22B)
Harmonic Current	Compliance to EN61000-3-2,-3
Efficiency	72%: PQ-100B 74%: PQ-100C/E 77%: PQ-100D
Isolation	3000VAC Input - Output 1500VAC Input - Ground 500VAC Output - Ground
EMS	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, light industry level, criteria A
Power Good	≥1 mS

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-10°C to +50°C, 60°C with cooling FAN
Storage Temperature	-20°C to +85°C, 10~95% RH
Relative Humidity	20 to +90% RH non cond
Temperature Coefficient	±0.03% / °C (0-50°C)
MTBF	258.6K Hrs min, MIL-HDBK-217F (25°C)
Vibration	10~500Hz, 2G10min./1cycle, period for 60min. each along X, Y, Z axes

PHYSICAL SPECIFICATIONS

Size	Millimeters	177.8 x 107.95 x 46
	Inches	7" x 4.25" x 1.81"
Weight		19.75 oz (560g)

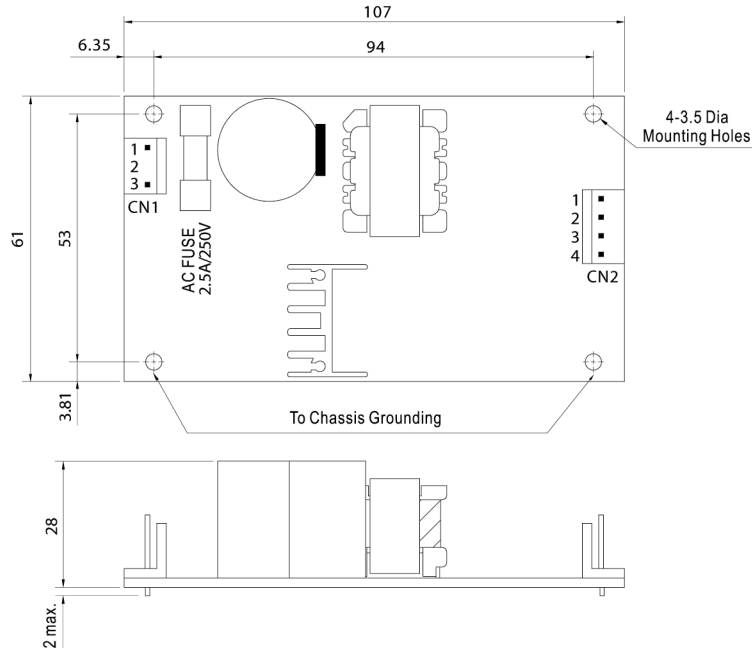
NOTE

1. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47 uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

■ Mechanical Specification

Unit:mm



AC Input Connector (CN1) : Molex 41791-03 or equivalent

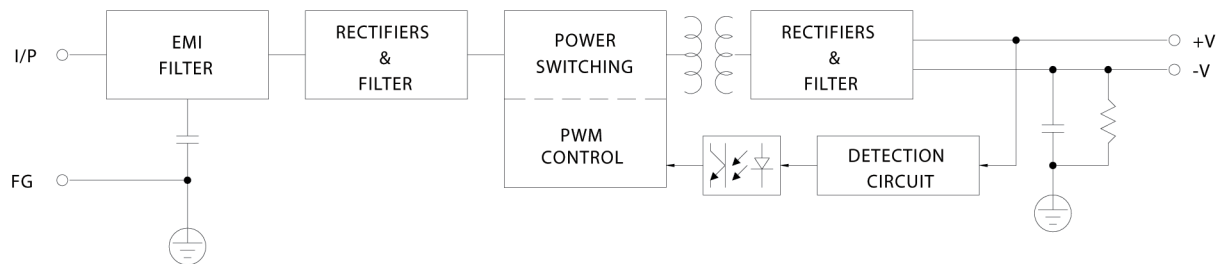
Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	Molex 2139 or equivalent	Molex 2478 or equivalent
2	No Pin		
3	AC/N		

DC Output Connector (CN2) : Molex 41791-04 or equivalent

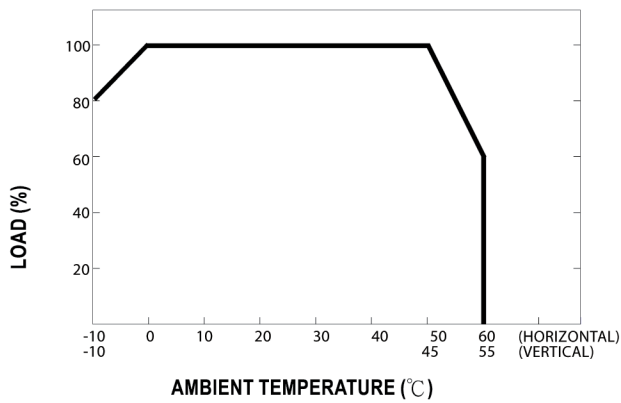
Pin No.	Assignment	Mating Housing	Terminal
1,2	+V	Molex 2139 or equivalent	Molex 2478 or equivalent
3,4	-V		

■ Block Diagram

fosc : 100KHz



■ Derating Curve



■ Static Characteristics (24V)

