



- Ultra High Efficiency (Up to 93%)
- Active Power Factor Correction
- Constant Output Voltage
- Up to 305VAC Operation
- Waterproof to IP67
- Lightning Protection
- Comprehensive Protection Circuitry
- Approved to UL8750 & EN61347
- RoHS Compliant
- 3 Year Warranty

Electrical Specifications

Input

Input Voltage	90-305VAC
Input Frequency	47-63 Hz
Input Current	1.20A @ 110VAC 0.6A @ 220VAC
Inrush Current	50A @ 230VAC/25°C/Cold Start
Power Factor	See table
Leakage Current	200µA @ 120VAC 400µA @ 240VAC
No Load Input Power	≤1.5W

Output

Output Voltage	See table
Initial Set Accuracy	±5%
Minimum Load	No minimum load required
Start Up Delay	3 seconds
Hold Up Time	≥20mS @ 120VAC, full load
Line Regulation	±1%
Load Regulation	±2%
Transient Response	±6% max. deviation, recovery to within spec in 15ms for a 50% step load change at a 1A/µs slew rate
Ripple & Noise	1.5% pk-pk, 20MHz bandwidth
Overvoltage Protection	Latch mode; power on to return to normal operation
Short Circuit Protection	No damage to unit; auto recovery when fault removed
Overtemperature Protection	110°C maximum internal component temperature
Temperature Coefficient	<0.03%/°C

Note: All specifications typical at 25°C unless noted.

General

Efficiency	See tables
Isolation	3kVAC input to output 3kVAC input to ground 0.5kVAC output to ground
Switching Frequency	100KHz
MTBF (MIL-HDBK-217F)	450kHrs @110VAC, full load, 25°C
Dimensions	7.24"L x 2.66"W x 1.46"H
Net Weight	2.09 lbs.

Environmental

Operating Temp.	-35°C to +70°C, no derating
Operating Humidity	10% to 100% RH, non-condensing
Storage Temperature	-40°C to +85°C
Operating Altitude	10K feet
Shock	30G

Safety & EMC

Safety Approvals USA	UL8750 Approved Compliance to UL1310 Class 2, UL1012, UL935
Canada	Compliance to CAN/CSA-C22.2 No. 0 CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0
Europe	EN61347-1 Approved
EMI	EN55015 (Radiated & Conducted)
Harmonic Currents	EN61000-3-2 Class C
Voltage Flicker	EN61000-3-3
ESD Immunity	EN61000-4-2; 8kV air; 4kV contact
Radiated Immunity	EN61000-4-3 Level 2
EFT/Burst	EN61000-4-4 Level 2
Surge	EN61000-4-5; 2kV line-line; 4kV line-earth
Conducted Immunity	EN61000-4-6
Dips / Interruptions	EN61000-4-11

Your Partners in Power.....

Power Partners, Inc. | 43 Broad Street | Hudson, MA 01749
Tel: (978)567-9600 | Fax: (978)567-9601
Website: www.powerpartners-inc.com

Specifications subject to change.
PIL100U-V: 10/02/2009



Models and Ratings Chart

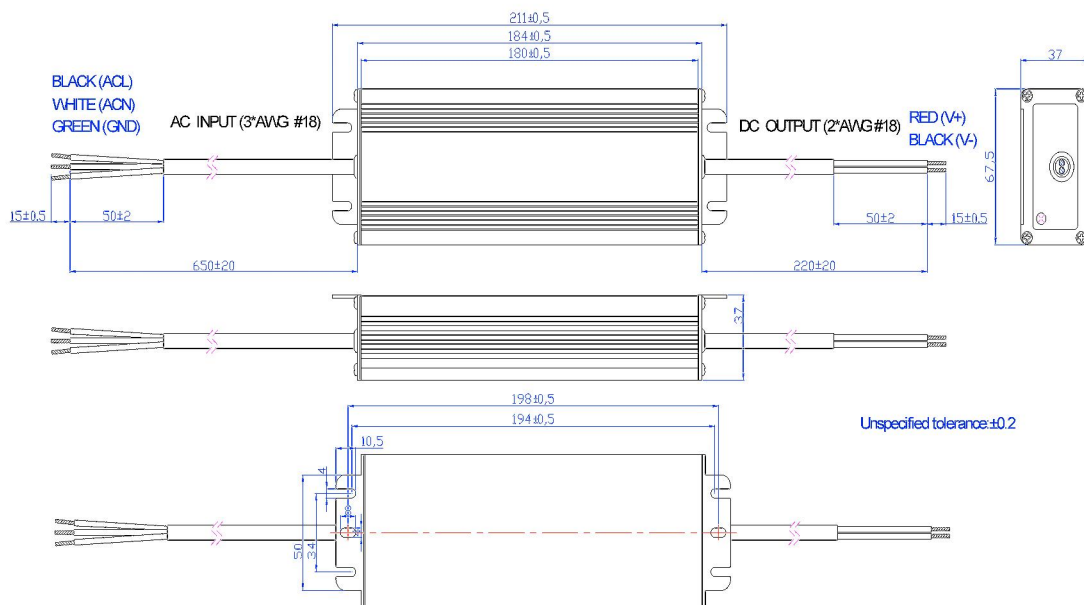
Nominal Output Voltage	Output Voltage Range (Note 3)	Max. Output Current	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number (Note 2)
					110VAC	220VAC	
12VDC	11.4 - 12.6VDC	8.33A	100W	91%	0.99	0.96	PIL100U-V12
24VDC	22.8 - 25.2VDC	4.17A	100W	93%	0.99	0.96	PIL100U-V24
36VDC	34.2 - 37.8VDC	2.77A	100W	93%	0.99	0.96	PIL100U-V36
42VDC	39.9 - 44.1VDC	2.38A	100W	93%	0.99	0.96	PIL100U-V42
48VDC	45.6 - 50.4VDC	2.08A	100W	92%	0.99	0.96	PIL100U-V48
54VDC	51.3 - 56.7VDC	1.85A	100W	93%	0.99	0.96	PIL100U-V54
81VDC	76.95 - 85.05VDC	1.23A	100W	93%	0.99	0.96	PIL100U-V81
105VDC	99.75 - 110.25VDC	0.95A	100W	93%	0.99	0.96	PIL100U-V105

Note 1: Measured at 220VAC input and full load.

Note 2: Additional suffix may be included to denote variations or modifications to the base product.

Note 3: Voltage factory set to nominal, unless otherwise specified.

Mechanical Outline Drawing



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