



- Ultra High Efficiency (Up to 91%)
- Active Power Factor Correction
- Constant Output Current
- 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	0.80 @ 100VAC 0.36A @ 220VAC
Inrush Current	50A @ 230VAC/25°C/Cold Start
Power Factor	See table

Output

Output Voltage	See table
Over/Undershoot	± 10%
Minimum Load	No minimum load required
Start Up Delay	0.8 seconds maximum @ 110VAC
Hold Up Time	≥ 10mS @ 110VAC, full load
Line Regulation	±1%
Load Regulation	±3%
Ripple & Noise	5% pk-pk, 20MHz bandwidth
Overtorque Protection	Latch mode; power on to return to normal operation
Short Circuit Protection	No damage to unit; auto recovery when fault removed
Overtemperature Protection	Latch mode; power on to return to normal operation
Temperature Coefficient	< 0.03% /°C

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

General

Efficiency	See tables
Isolation	3.0kVAC input to output 1.5kVAC input to ground 0.5kVAC output to ground
MTBF (MIL-HDBK-217F)	546kHrs @ 110VAC input, 2300mA model, 80% load, 25°C
Dimensions	5.91"L x 2.66"W x 1.46"H
Net Weight	1.65 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

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, EN61347-2-13
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
Magnetic Field	EN61000-4-8
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.
PIL60U-C: 02/09/2010



Models and Ratings Chart

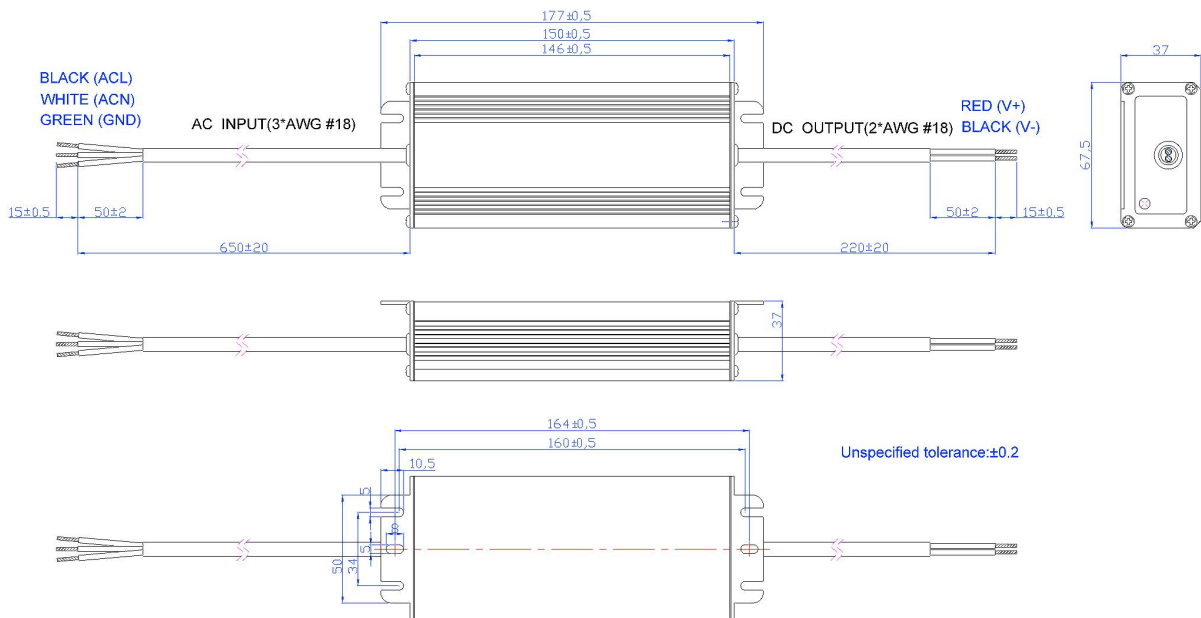
Nominal Output Current	Output Current Range (Note 3)	Max. Output Voltage	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number (Note 2)
					110VAC	220VAC	
350mA	332mA - 368mA	170VDC	60W	91.0%	0.99	0.95	PIL60U-C350-ST
450mA	428mA - 472mA	134VDC	60W	91.0%	0.99	0.95	PIL60U-C450-ST
700mA	665mA - 735mA	86VDC	60W	91.0%	0.99	0.95	PIL60U-C700-ST
1050mA	1000mA - 1100mA	58VDC	60W	90.0%	0.99	0.95	PIL60U-C1050-ST
1400mA	1330mA - 1470mA	43VDC	60W	90.0%	0.99	0.95	PIL60U-C1400ST
1700mA	1615mA - 1785mA	36VDC	60W	90.0%	0.99	0.95	PIL60U-C1700-ST
2300mA	2185mA - 2415mA	27VDC	60W	89.0%	0.99	0.95	PIL60U-C2300ST
3300mA	3135mA - 3465mA	18VDC	60W	88.0%	0.99	0.95	PIL60U-C3300-ST
5000mA	4750mA - 5250mA	12VDC	60W	87.0%	0.99	0.95	PIL60U-C5000-ST

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: Output current factory set to nominal, unless otherwise specified.

Mechanical Outline Drawing



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