



- Ultra High Efficiency (Up to 92%)
- 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	1.3A @ 100VAC 0.6A @ 220VAC
Inrush Current	65A @ 230VAC/25°C/Cold Start
Power Factor	See table
Leakage Current	300µA @ 120VAC 500µA @ 240VAC
No Load Input Power	≤8W

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)	478kHrs @110VAC input 1400mA model, full load, 25°C
Dimensions	7.64"L x 2.66"W x 1.46"H
Net Weight	2.20 lbs.

Output

Output Voltage	See table
Initial Set Accuracy	± 5%
Minimum Load	No minimum load required
Start Up Delay	1 second maximum
Hold Up Time	≥ 20mS @ 120VAC, full load
Line Regulation	±1%
Load Regulation	±5%
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	3% 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.

Environmental

Operating Temp.	-35°C to +70°C maximum
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	UL8750 Approved
USA	Compliance to 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 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-C: 02/25/2010



Models and Ratings Chart

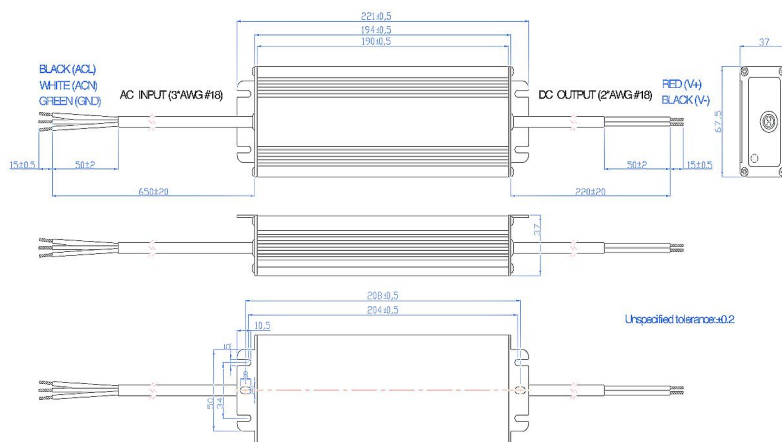
Nominal Output Current	Output Current Range (Note 3)	Max. Output Voltage	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number (Note 2)
					110VAC	220VAC	
350mA	332mA - 368mA	286VDC	100W	92.0%	0.99	0.96	PIL100U-C350
450mA	427mA - 473mA	222VDC	100W	92.0%	0.99	0.96	PIL100U-C450
700mA	665mA - 735mA	143VDC	100W	91.0%	0.99	0.96	PIL100U-C700
1050mA	997mA - 1102mA	95VDC	100W	91.0%	0.99	0.96	PIL100U-C1050
1400mA	1330mA - 1470mA	72VDC	100W	91.0%	0.99	0.96	PIL100U-C1400
1750mA	1662mA - 1837mA	57VDC	100W	91.0%	0.99	0.96	PIL100U-C1750
2100mA	1995mA - 2205mA	48VDC	100W	91.0%	0.99	0.96	PIL100U-C2100
2450mA	2327mA - 2572mA	41VDC	100W	91.0%	0.99	0.96	PIL100U-C2450
2800mA	2660mA - 2940mA	36VDC	100W	90.5%	0.99	0.96	PIL100U-C2800
3150mA	2992mA - 3307mA	32VDC	100W	90.5%	0.99	0.96	PIL100U-C3150
3570mA	3391mA - 3748mA	28VDC	100W	90.5%	0.99	0.96	PIL100U-C3570
4200mA	3990mA - 4410mA	24VDC	100W	90.5%	0.99	0.96	PIL100U-C4200

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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