



- 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 | 0.9 @ 100VAC 0.4a @ 220VAC |
| Inrush Current | 50A @ 230VAC/25°C/Cold Start |
| Power Factor | See table |
| Leakage Current | 300µA @ 120VAC 500µA @ 240VAC |
| No Load Input Power | ≤8W |

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 | ≥ 20mS @ 120VAC, full load |
| Line Regulation | ±1% |
| Load Regulation | ±3% |
| Transient Response | ± 3% max. deviation, recovery to within spec in 15ms for a 50% step load change at a 1A/µs slew rate |
| Ripple & Noise | 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 | 3.0kVAC input to output 1.5kVAC input to ground 0.5kVAC output to ground 498kHrs @110VAC input, 2800mA model, 80% load, 25°C |
| MTBF (MIL-HDBK-217F) | |
| 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 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 |
| 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.
PIL75U-C: 01/13/2010



Models and Ratings Chart

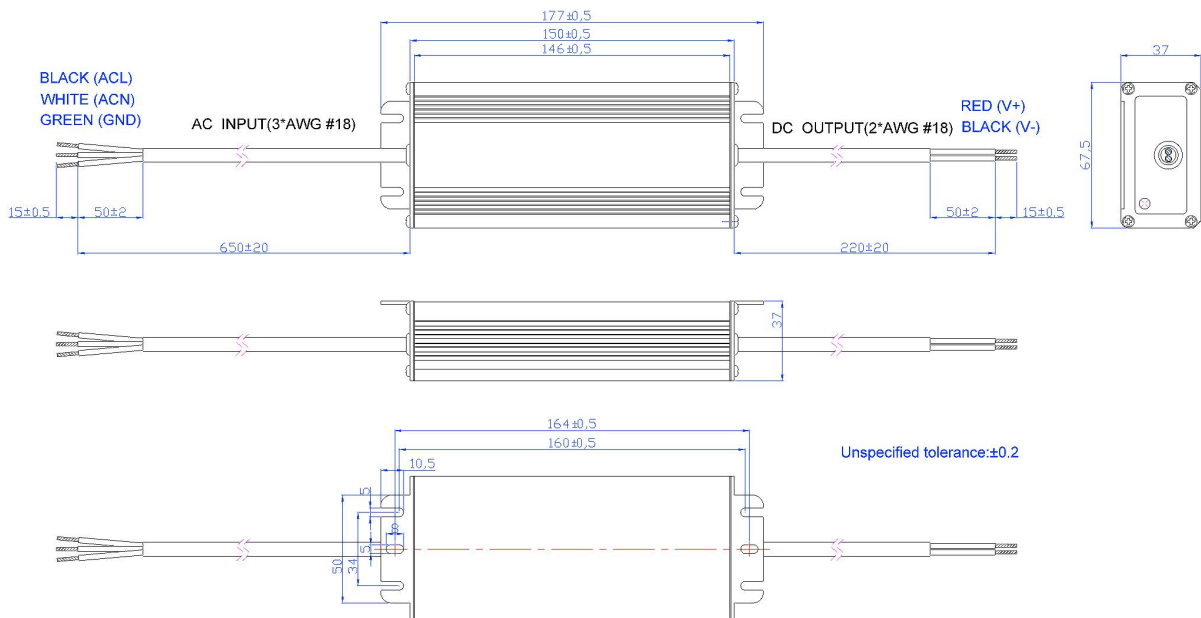
| Nominal Output Current | Output Current Range (Note 3) | Max. Output Voltage | Max. Output Power | Typical Efficiency (Note 1) | Power Factor | | Model Number (Note 2) |
|------------------------|-------------------------------|---------------------|-------------------|-----------------------------|--------------|--------|-----------------------|
| | | | | | 110VAC | 220VAC | |
| 350mA | 332mA - 368mA | 214VDC | 75W | 92.0% | 0.99 | 0.96 | PIL75U-C350 |
| 450mA | 428mA - 473mA | 166VDC | 75W | 92.0% | 0.99 | 0.96 | PIL75U-C450 |
| 700mA | 665mA - 735mA | 108VDC | 75W | 91.0% | 0.99 | 0.96 | PIL75U-C700 |
| 1050mA | 1000mA - 1120mA | 72VDC | 75W | 90.0% | 0.99 | 0.96 | PIL75U-C1050 |
| 1400mA | 1330mA - 1470mA | 54VDC | 75W | 90.0% | 0.99 | 0.96 | PIL75U-C1400 |
| 2100mA | 1995mA - 2205mA | 36VDC | 75W | 89.0% | 0.99 | 0.96 | PIL75U-C2100 |
| 2800mA | 2660mA - 2940mA | 27VDC | 75W | 89.0% | 0.99 | 0.96 | PIL75U-C2800 |
| 3570mA | 3365mA - 3935mA | 20VDC | 75W | 88.0% | 0.99 | 0.96 | PIL75U-C3570 |
| 5000mA | 4750mA - 5250mA | 15VDC | 75W | 88.0% | 0.99 | 0.96 | PIL75U-C5000 |

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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