



- 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

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Specifications subject to change.
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Models and Ratings Chart

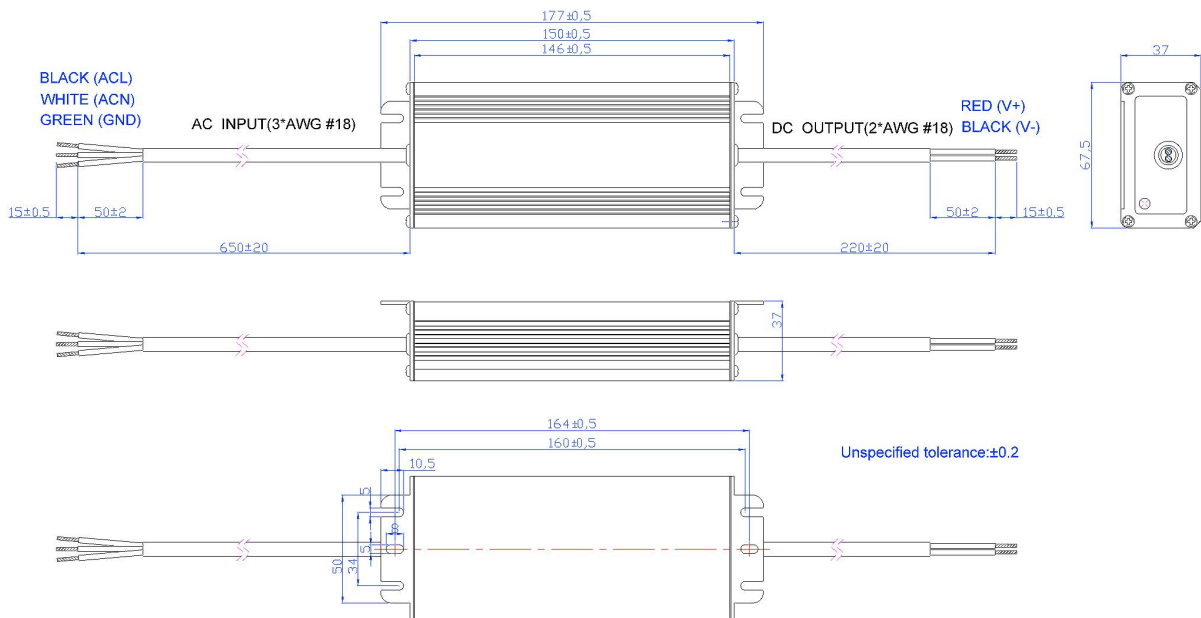
Nominal Output Current	Output Current Range (Note 3)	Max. Output Voltage	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number (Note 2)
					110VAC	220VAC	
350mA	332mA - 368mA	214VDC	75W	92.0%	0.99	0.96	PIL75U-C350
450mA	428mA - 473mA	166VDC	75W	92.0%	0.99	0.96	PIL75U-C450
700mA	665mA - 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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