



- 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	1.5A @ 100VAC 0.75A @ 220VAC
Inrush Current	65A @ 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
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	±3%
Transient Response	± 6% max. deviation, recovery to within spec in 20ms 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.

#### 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)	350kHrs @110VAC, full load, 25°C
Dimensions	7.64"L x 2.66"W x 1.46"H
Net Weight	2.20 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, 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

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Specifications subject to change.  
PIL120U-C: 10/05/2009



### Models and Ratings Chart

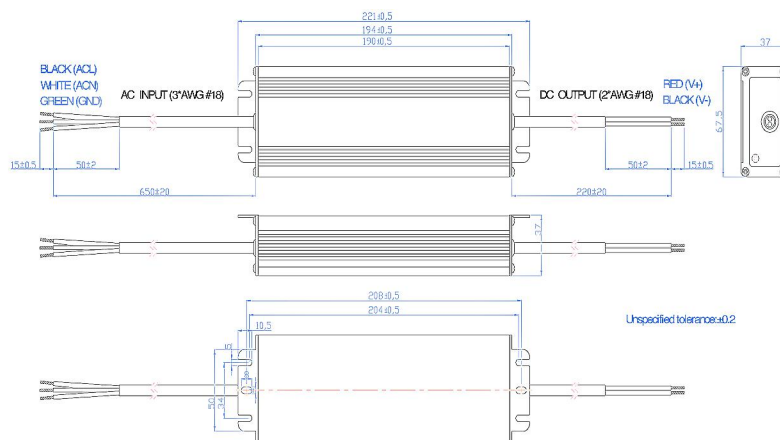
Output Current Range (Note 3)	Max. Output Voltage	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number (Note 2)
				110VAC	220VAC	
427mA - 473mA	266VDC	120W	92.0%	0.99	0.96	<b>PIL120U-C450</b>
665mA - 735mA	171VDC	120W	92.0%	0.99	0.96	<b>PIL120U-C700</b>
997mA - 1102mA	114VDC	120W	91.0%	0.99	0.96	<b>PIL120U-C1050</b>
1330mA - 1470mA	86VDC	120W	91.0%	0.99	0.96	<b>PIL120U-C1400</b>
1662mA - 1837mA	68VDC	120W	91.0%	0.99	0.96	<b>PIL120U-C1750</b>
1995mA - 2205mA	57VDC	120W	91.0%	0.99	0.96	<b>PIL120U-C2100</b>
2327mA - 2572mA	49VDC	120W	91.0%	0.99	0.96	<b>PIL120U-C2450</b>
2660mA - 2940mA	43VDC	120W	91.0%	0.99	0.96	<b>PIL120U-C2800</b>
2992mA - 3307mA	38VDC	120W	90.5%	0.99	0.96	<b>PIL120U-C3150</b>
3325mA - 3675mA	34VDC	120W	90.5%	0.99	0.96	<b>PIL120U-C3500</b>
3990mA - 4410mA	28VDC	120W	90.5%	0.99	0.96	<b>PIL120U-C4200</b>
4655mA - 5145mA	24VDC	120W	90.5%	0.99	0.96	<b>PIL120U-C4900</b>

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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