



- 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
- UL8750 Approval & EN61347 Compliance
- RoHS Compliant
- 3 Year Warranty

Electrical Specifications

Input

Input Voltage	90-305VAC
Input Frequency	47-63 Hz
Input Current	2.4A @ 100VAC 1.2A @ 220VAC
Inrush Current	65A @ 230VAC/25°C/Cold Start
Power Factor	See table
Leakage Current	108µA @ 120VAC 269µA @ 240VAC
No Load Input Power	≤6W

Output

Output Voltage	See table
Initial Set Accuracy	± 10%
Minimum Load	No minimum load required
Start Up Delay	2 seconds maximum
Hold Up Time	≥ 30ms @ 120VAC, full load
Line Regulation	±1%
Load Regulation	±3%
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 w/capacitor
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	4kVAC input to output 1.8kVAC input to ground 1.8kVAC output to ground
MTBF (MIL-HDBK-217F)	311kHrs @ 110VAC input 2450mA model, 80%, 25°C
Dimensions	9.37"L x 3.13"W x 1.81"H
Net Weight	3.30 lbs.

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
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.
PIL200U-C: 01/28/2010



Models and Ratings Chart

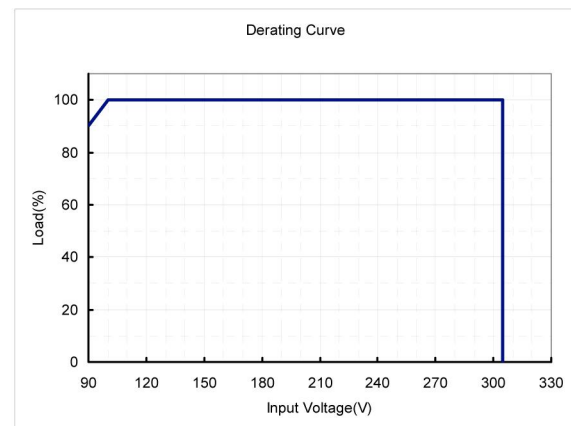
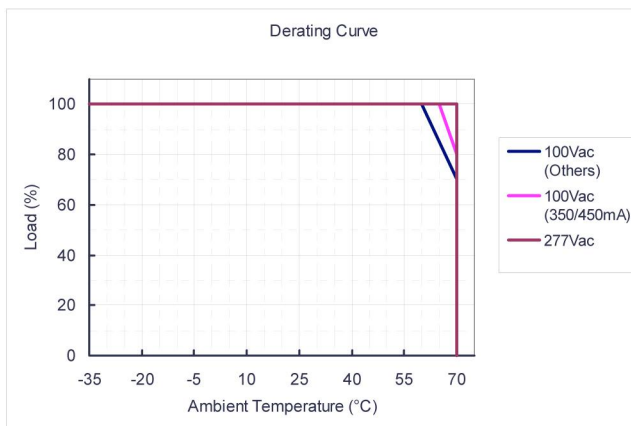
Nominal Output Current	Output Current Range (Note 3)	Max. Output Voltage	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number (Note 2)
					110VAC	220VAC	
450mA	427mA - 473mA	445VDC	200W	92.0%	0.99	0.96	PIL200U-C450
700mA	665mA - 735mA	285VDC	200W	92.0%	0.99	0.96	PIL200U-C700
1050mA	997mA - 1103mA	190VDC	200W	92.0%	0.99	0.96	PIL200U-C1050
1400mA	1330mA - 1470mA	142VDC	200W	92.0%	0.99	0.96	PIL200U-C1400
1750mA	1662mA - 1838mA	114VDC	200W	91.0%	0.99	0.96	PIL200U-C1750
2100mA	1995mA - 2205mA	95VDC	200W	91.0%	0.99	0.96	PIL200U-C2100
2450mA	2327mA - 2573mA	81VDC	200W	91.0%	0.99	0.96	PIL200U-C2450
2800mA	2660mA - 2940mA	71VDC	200W	91.0%	0.99	0.96	PIL200U-C2800
3150mA	2992mA - 3308mA	63VDC	200W	91.0%	0.99	0.96	PIL200U-C3150
3500mA	3325mA - 3675mA	57VDC	200W	91.0%	0.99	0.96	PIL200U-C3500
4200mA	3990mA - 4410mA	47VDC	200W	91.0%	0.99	0.96	PIL200U-C4200
4900mA	4655mA - 5145mA	40VDC	200W	91.0%	0.99	0.96	PIL200U-C4900
5600mA	5320mA - 5880mA	35VDC	200W	91.0%	0.99	0.96	PIL200U-C5600
6300mA	5985mA - 6615mA	32VDC	200W	91.0%	0.99	0.96	PIL200U-C6300
8330mA	7915mA - 8745mA	24VDC	200W	90.0%	0.99	0.96	PIL200U-C8330

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.

Derating Curve



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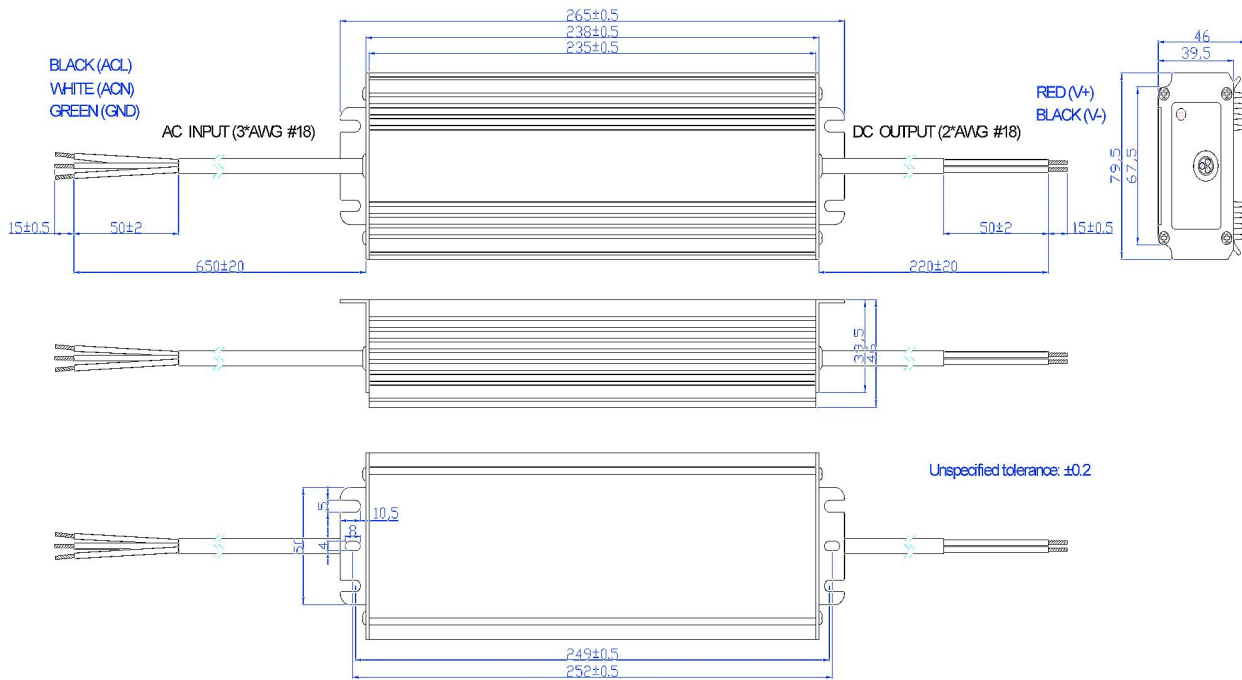
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Mechanical Outline Drawing



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