



- High Efficiency (Up to 88%)
- Active Power Factor Correction
- Constant Output Current
- Waterproof to IP67
- Comprehensive Protection Circuitry
- Approved to UL8750 & EN61347
- RoHS Compliant
- 3 Year Warranty

Electrical Specifications

Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	0.70A @ 110VAC 0.35A @ 220VAC
Inrush Current	65A @ 230VAC/25°C/Cold Start
Power Factor	See table
Leakage Current	250µA @ 120VAC 500µA @ 240VAC
No Load Power Dissipation	≤1.0W @ 230VAC

Output

Output Voltage	See table
Initial Set Accuracy	±10%
Minimum Load	No minimum load required
Start Up Delay	0.8 seconds max at 110VAC
Hold Up Time	≥10mS @ 120VAC, full load
Line Regulation	±1%
Load Regulation	±3%
Transient Response	±3% max. deviation, recovery to within spec in 300ms for a 50% step load change at a 1A/µs slew rate
Ripple & Noise	2% pk-pk, 20MHz bandwidth
Overvoltage Protection	Latch mode, restart unit to resume normal operation
Short Circuit Protection	No damage to unit; auto recovery when fault removed
Temperature Coefficient	<0.03%/°C

Note: All specifications typical at 25°C unless noted.

General

Efficiency	See tables
Isolation	3000VAC input to output 1800VAC input to ground 500VAC output to ground
MTBF (MIL-HDBK-217F)	837kHrs @110VAC input, 2100mA model, 80% load, 25°C
Dimensions	6.38"L x 1.36"W x 1.67"H
Net Weight	1.01 lbs.

Environmental

Operating Temp.	-35°C to +60°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
Magnetic Field	EN61000-4-8
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.
PIL50W-C: 01/12/2010



Models and Ratings Chart

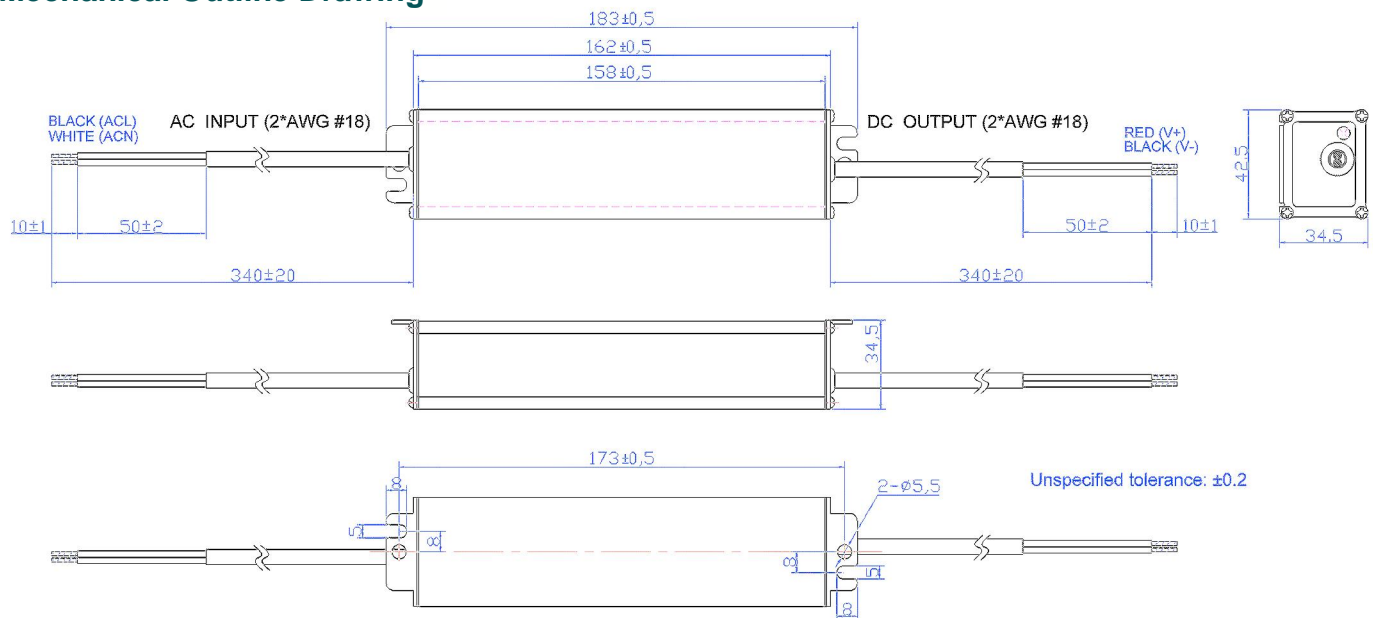
Nominal Output Current	Output Current Range (Note 3)	Max. Output Voltage	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number (Note 2)
					110VAC	220VAC	
350mA	333mA - 367mA	142VDC	50W	88.0%	0.87	0.85	PIL50W-C350
450mA	428mA - 472mA	111VDC	50W	88.0%	0.87	0.85	PIL50W-C450
700mA	665mA - 735mA	72VDC	50W	88.0%	0.87	0.85	PIL50W-C700
1050mA	997mA - 1102mA	48VDC	50W	88.0%	0.87	0.85	PIL50W-C1050
1100mA	1045mA - 1155mA	45.5VDC	50W	87.0%	0.87	0.85	PIL50W-C1100
1400mA	1330mA - 1470mA	36VDC	50W	87.0%	0.87	0.85	PIL50W-C1400
2100mA	1995mA - 2205mA	24VDC	50W	86.0%	0.87	0.85	PIL50W-C2100
2770mA	2635mA - 2905mA	18VDC	50W	85.0%	0.87	0.85	PIL50W-C2770
3000mA	2850mA - 3150mA	12VDC	36W	84.0%	0.86	0.84	PIL50W-C3000

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: Current rating factory set to nominal, unless otherwise specified.

Mechanical Outline Drawing



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