



- High Efficiency (Up to 86%)
- 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	0.43A @ 110VAC 0.25A @ 220VAC
Inrush Current	65A @ 230VAC/25°C/Cold Start
Power Factor	See table
Leakage Current	300µA @ 120VAC 500µA @ 240VAC
No Load Power Dissipation	≤1.0W @ 240VAC

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)	943kHrs @110VAC input.
Dimensions	1250mA model, 80% load, 25°C
Net Weight	6.38"L x 1.36"W x 1.67"H 1.01 lbs.

Output

Output Voltage	See table
Initial Set Accuracy	±10%
Minimum Load	No minimum load required
Start Up Delay	0.8 seconds maximum at 120VAC
Hold Up Time	≥20mS @ 120VAC, full load
Line Regulation	±1%
Load Regulation	±3%
Transient Response	±6% max. deviation, recovery to within spec in 300ms for a 50% step load change at a 1A/µs slew rate
Ripple & Noise	10% pk-pk, 20MHz bandwidth
Overvoltage Protection	Latch mode; normal operation returns after unit restart
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.

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	UL8750 Approved
USA	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, 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.
PIL30W-C: 02/25/2010



Models and Ratings Chart

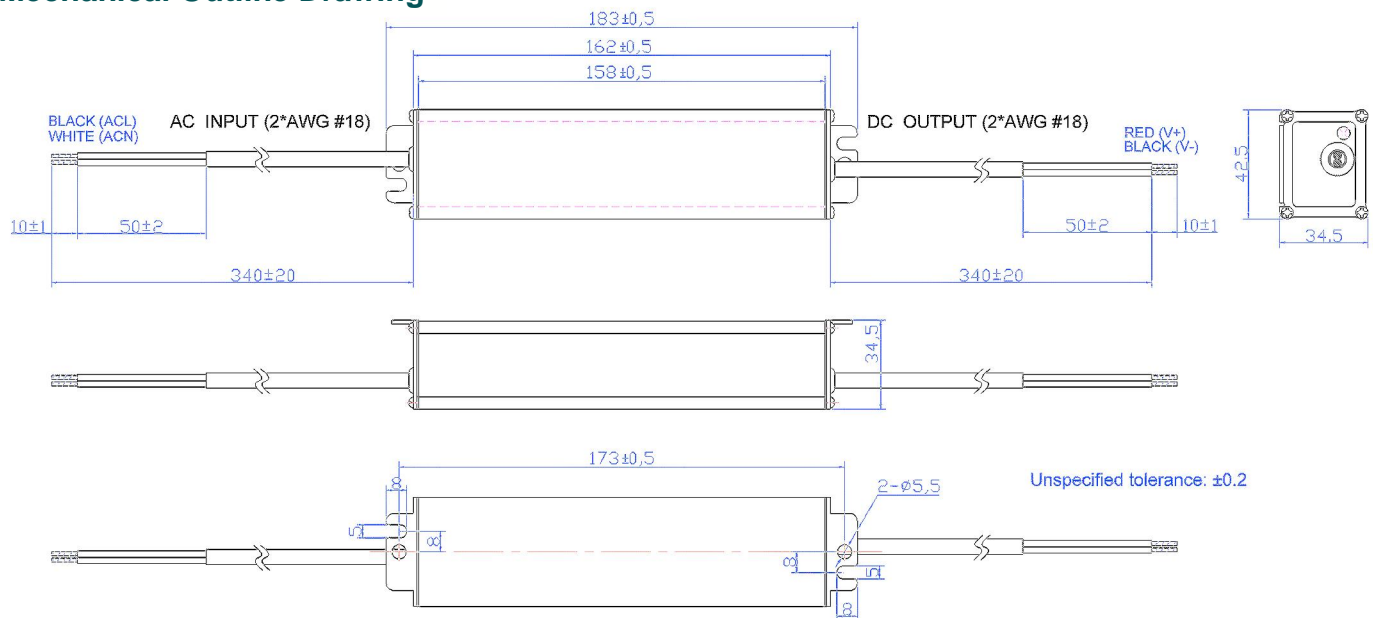
Nominal Output Current	Output Current Range (Note 3)	Max. Output Voltage	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number (Note 2)
					110VAC	220VAC	
2500mA	2375mA - 2625mA	12VDC	30W	83.0%	0.85	0.83	PIL30W-C2500
1660mA	1580mA - 1740mA	18VDC	30W	84.0%	0.86	0.84	PIL30W-C1660
1250mA	1190mA - 1310mA	24VDC	30W	85.0%	0.86	0.84	PIL30W-C1250
830mA	790mA - 870mA	36VDC	30W	86.0%	0.86	0.84	PIL30W-C830
700mA	665mA - 735mA	42VDC	30W	86.0%	0.86	0.84	PIL30W-C700
450mA	428mA - 472mA	66VDC	30W	86.0%	0.86	0.84	PIL30W-C450
350mA	333mA - 367mA	86VDC	30W	87.0%	0.86	0.84	PIL30W-C350

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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