



- Ultra High Efficiency (Up to 94%)
- High Power Factor Correction
- Constant Output Voltage
- 90-264VAC Input Range
- Waterproof to IP67
- Lightning Protection
- Comprehensive Protection Circuitry
- Approved to UL8750/EN61347 Compliant
- RoHS Compliant
- 3 Year Warranty

### Electrical Specifications

#### Input

Input Voltage	90-264VAC
Input Frequency	47-63 Hz
Input Current	1.75A @ 110VAC 0.8A @ 220VAC
Inrush Current	65A @ 230VAC/25°C/Cold Start
Power Factor	See table
Leakage Current	250µA @ 120VAC 460µA @ 240VAC
No Load Input Power	≤2W

#### Output

Output Voltage	See table
Initial Set Accuracy	±10%
Minimum Load	No minimum load required
Start Up Delay	1 second maximum @110VAC
Hold Up Time	≥10mS @ 110VAC, full load
Line Regulation	±1%
Load Regulation	±2%
Transient Response	±5% max. deviation, recovery to within spec in 10ms for a 50% step load change at a 1A/µs slew rate
Ripple & Noise	2% 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
Over Current Protection	180% <sub>Io</sub> maximum. Hiccup mode; auto recovery when fault removed
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 584kHrs @110VAC input 54VDC model, 80% load, 25°C
MTBF (MIL-HDBK-217F)	7.83"L x 2.66"W x 1.57"H 2.20 lbs.
Dimensions	
Net Weight	

#### 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	Compliance to EN61347-1
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

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Specifications subject to change.  
PIL150W-V: 01/19/2010



### Models and Ratings Chart

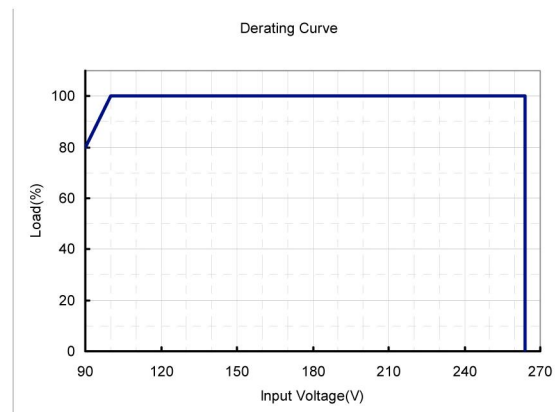
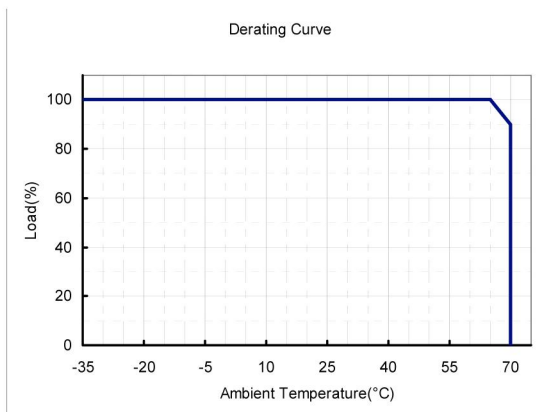
Nominal Output Voltage	Output Voltage Range (Note 3)	Max. Output Current	Max. Output Power	Typical Efficiency (Note 1)	Power Factor		Model Number (Note 2)
					110VAC	220VAC	
12VDC	11.4 - 12.6VDC	12.50A	150W	92%	0.99	0.96	<b>PIL150W-V12</b>
24VDC	22.8 - 25.2VDC	6.25A	150W	93%	0.99	0.96	<b>PIL150W-V24</b>
36VDC	34.2 - 37.8VDC	4.70A	150W	93%	0.99	0.96	<b>PIL150W-V36</b>
40VDC	38.0 - 42.0VDC	3.75A	150W	93%	0.99	0.96	<b>PIL150W-V40</b>
42VDC	39.9 - 44.1VDC	3.57A	150W	94%	0.99	0.96	<b>PIL150W-V42</b>
48VDC	45.6 - 50.4VDC	3.13A	150W	93%	0.99	0.96	<b>PIL150W-V48</b>
50VDC	47.5 - 52.5VDC	3.00A	150W	93%	0.99	0.96	<b>PIL150W-V50</b>
52VDC	49.4 - 54.6VDC	2.88A	150W	93%	0.99	0.96	<b>PIL150W-V52</b>
54VDC	51.3 - 56.7VDC	2.78A	150W	93%	0.99	0.96	<b>PIL150W-V54</b>
56VDC	53.2 - 58.8VDC	2.68A	150W	93%	0.99	0.96	<b>PIL150W-V56</b>
81VDC	76.95 - 85.05VDC	1.85A	150W	94%	0.99	0.96	<b>PIL150W-V81</b>
105VDC	99.75 - 110.25VDC	1.42A	150W	94%	0.99	0.96	<b>PIL150W-V105</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: Voltage factory set to nominal, unless otherwise specified.

### Derating Curve



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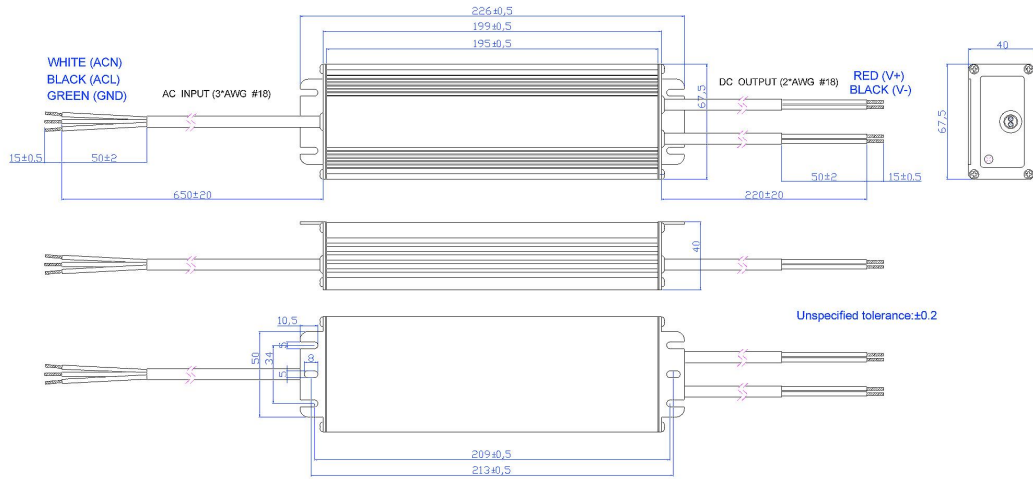


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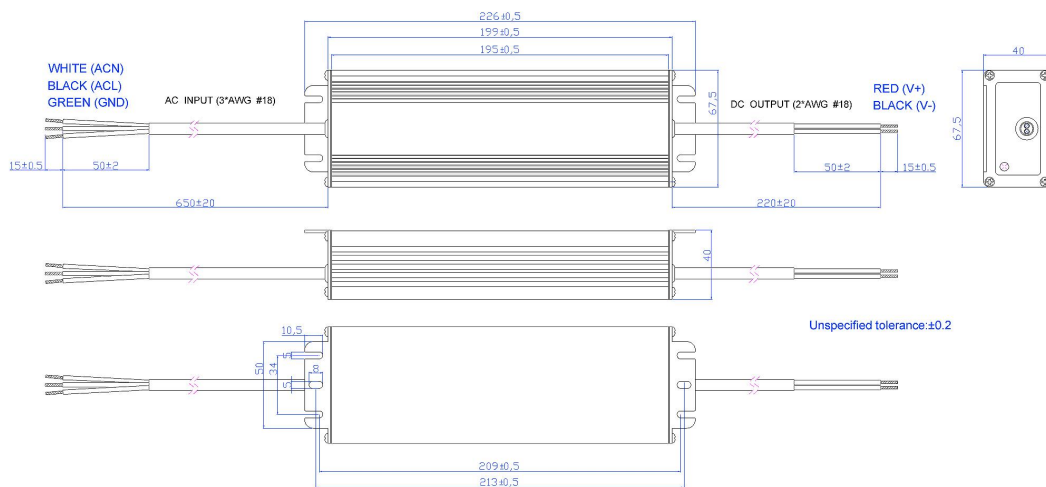


### Mechanical Outline Drawing PIL150W-V12 only



Note: The two DC output cables are connected in parallel within the power supply. Each #18AWG wire can carry 10A maximum. Both red wires and both black wires should be connected in the application.

### Mechanical Outline Drawing All models except PIL150W-V12



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