



- Ultra High Efficiency (Up to 93%)
- High Power Factor Correction
- Constant Output Voltage
- Up to 305VAC Operation
- Waterproof to IP67
- Lightning Protection
- Comprehensive Protection Circuitry
- UL8750 Approved/EN61347 Compliant
- RoHS Compliant
- 3 Year Warranty

Electrical Specifications

Input

| | |
|---------------------|----------------------------------|
| Input Voltage | 90-305VAC |
| Input Frequency | 47-63 Hz |
| Input Current | 2.3A @ 110VAC 1.1A @ 220VAC |
| Inrush Current | 65A @ 230VAC/25°C/Cold Start |
| Power Factor | See table |
| Leakage Current | 260µA @ 120VAC 550µA @ 240VAC |
| No Load Input Power | ≤2W |

Output

| | |
|----------------------------|---|
| Output Voltage | See table |
| Initial Set Accuracy | ±5% |
| Minimum Load | No minimum load required |
| Start Up Delay | 1 second max @ 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 |
| Overload Protection | Hiccup mode; auto restart when fault removed |
| Short Circuit Protection | No damage to unit; auto recovery when fault removed |
| Overtemperature Protection | 120°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 1.8kVAC input to ground 0.5kVAC output to ground 247kHrs @ 110VAC input 54VDC output, 80, 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 EN61347-1 Compliant |
| Europe | EN55015 (Radiated & Conducted) |
| EMI | EN61000-3-2 Class C |
| Harmonic Currents | EN61000-3-3 |
| Voltage Flicker | EN61000-4-2; 8kV air; 4kV contact |
| ESD Immunity | EN61000-4-3 Level 2 |
| Radiated Immunity | EN61000-4-4 Level 2 |
| EFT/Burst | EN61000-4-5; 2kV line-line; 4kV line-earth |
| Surge | EN61000-4-8 |
| Magnetic Field | EN61000-4-6 |
| Conducted Immunity | EN61000-4-11 |
| Dips / Interruptions | |

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.
PIL200U-V: 01/21/2010



Models and Ratings Chart

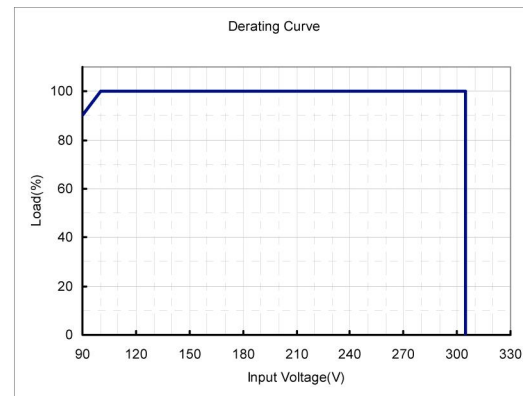
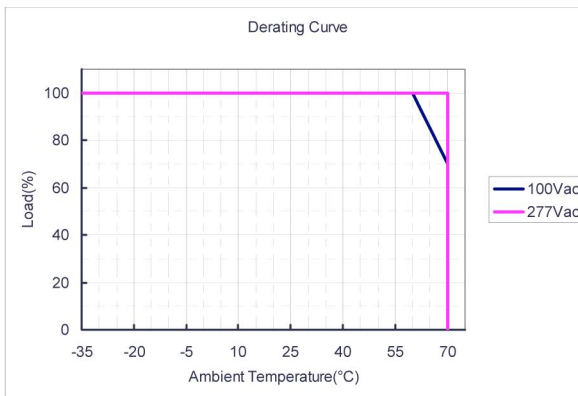
| Nominal Output Voltage | Output Voltage Range (Note 3) | Max. Output Current | Max. Output Power | Typical Efficiency (Note 1) | Power Factor | | Model Number (Note 2) |
|------------------------|-------------------------------|---------------------|-------------------|-----------------------------|--------------|--------|-----------------------|
| | | | | | 110VAC | 220VAC | |
| 12VDC | 11.4 - 12.6VDC | 15.0A | 200W | 91.0% | 0.99 | 0.97 | PIL200U-V12 |
| 24VDC | 22.8 - 25.2VDC | 8.33A | 200W | 92.0% | 0.99 | 0.97 | PIL200U-V24 |
| 36VDC | 34.2 - 37.8VDC | 5.56A | 200W | 92.5% | 0.99 | 0.97 | PIL200U-V36 |
| 42VDC | 39.9 - 44.1VDC | 4.76A | 200W | 92.5% | 0.99 | 0.97 | PIL200U-V42 |
| 48VDC | 45.6 - 50.4VDC | 4.17A | 200W | 92.5% | 0.99 | 0.97 | PIL200U-V48 |
| 50VDC | 47.5 - 52.5VDC | 4.00A | 200W | 92.5% | 0.99 | 0.97 | PIL200U-V50 |
| 52VDC | 49.4 - 54.6VDC | 3.84A | 200W | 93.0% | 0.99 | 0.97 | PIL200U-V52 |
| 54VDC | 51.3 - 56.7VDC | 3.70A | 200W | 93.0% | 0.99 | 0.97 | PIL200U-V54 |
| 81VDC | 76.95 - 85.05VDC | 2.47A | 200W | 93.0% | 0.99 | 0.97 | PIL200U-V81 |
| 105VDC | 99.75 - 110.25VDC | 1.90A | 200W | 93.0% | 0.99 | 0.97 | PIL200U-V105 |

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



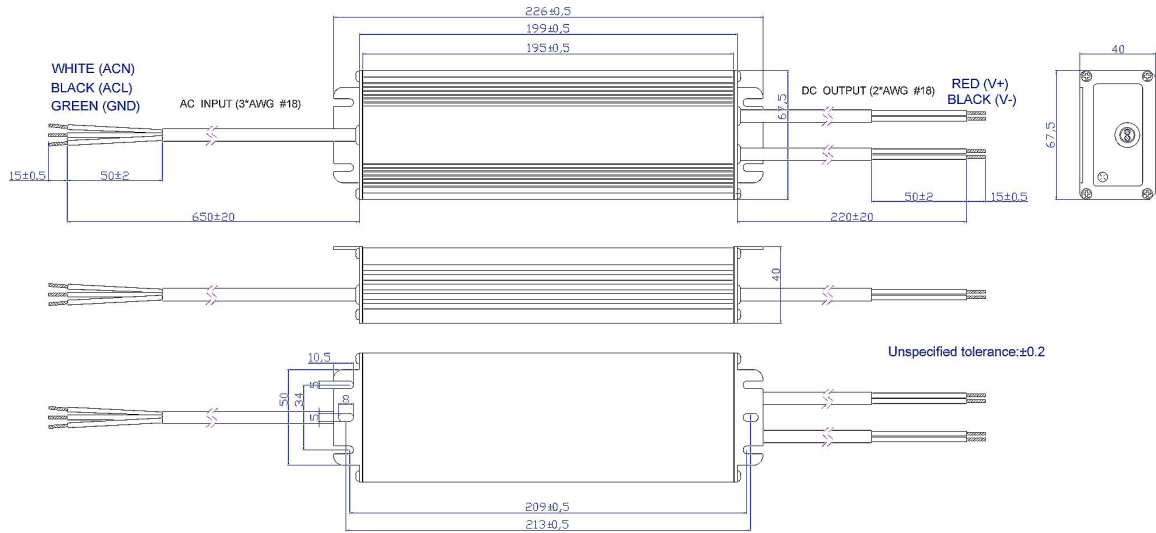
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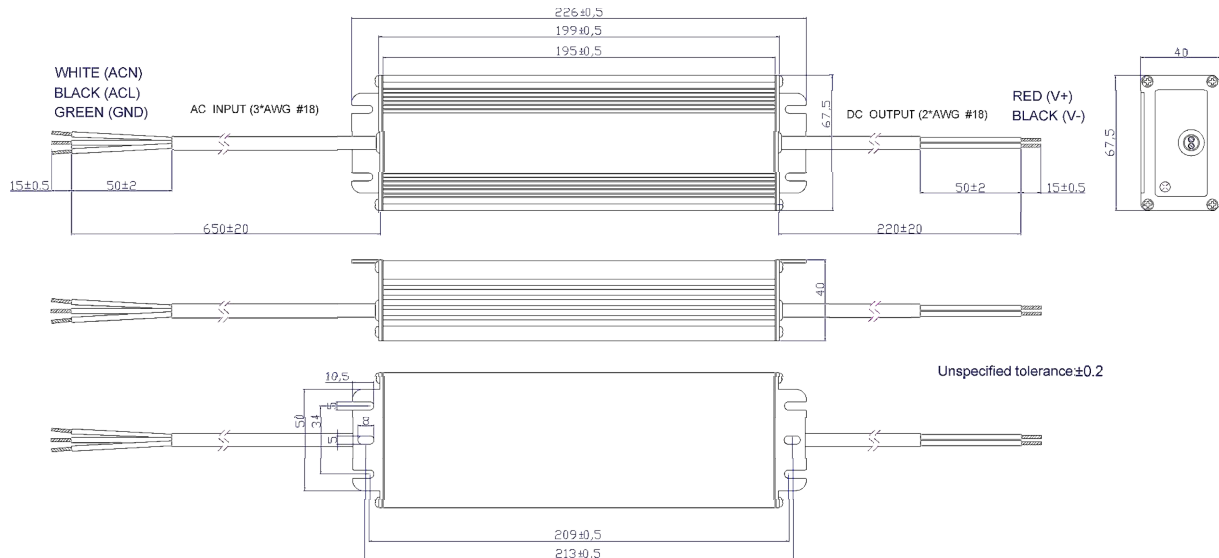


Mechanical Outline Drawing (PIL200U-V12 model only)



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 PIL200U-V12)



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