# PW149RB

## Universal 12 Watt Series

SL POWER ELECTRONICS

### ITE / Switch Mode Power Supply

**1 Year Warranty**

- *100-240 VAC Universal Input*
- *Single Output to 10W – 12W*
- *Eight Models Available from 5V to 48V*
- *Meets Safety Agency Requirements*
- *Complies with Class B EMI/RFI Regulations*
- *CE Compliant*
- *Impact Resistant Polycarbonate Enclosure*
- *Private Label Marking Available*
- *Modified and Custom Designs Also Available*
- *Meets ENERGY STAR Criteria Level IV and EISA Requirements — see reverse side for details*

ENERGY STAR

AULT

**International Safety Standard Approvals**

RoHS

## Specifications

### Output Specifications

| | | |
|---|---|---|
| Line and Load Voltage Regulation | Excluding cord | +/-1% (±5% at no load) |
| Ripple | | 1% V p-p max. for output current of >0.175A |
| Transient Response | | 0.5ms for 50% Load Change Typical |
| Protection | | Foldback Over-current Protection<br>Short Circuit Protection |

### Input Specifications

| | | |
|---|---|---|
| Voltage | | 100-240VAC -10%, +6% |
| Line Frequency | | 47-63Hz |
| Input Current | 90VAC Input | 0.4A max. |
| Protection | | Internal Primary Current Fuse, Inrush Limiting |

### Environmental Specifications

| | | |
|---|---|---|
| Thermal Performance | Operating temperature with no derating convectional cooling Non vented case | 0° C to 40° C |
| Relative Humidity | Non-condensing | 5% to 95% |
| Altitude | | 0-10,000 feet |

### General Specifications

| | | |
|---|---|---|
| Topology | | Switching-Fixed Frequency Flyback |
| Dielectric Withstand | | 3000VAC, 4250VDC Primary-Secondary |
| Spacing | | >5mm Primary-Secondary |
| Leakage Current | | <250 uA |
| Efficiency | | Meets Energy Star Level IV |
| EMI | | Class B |
| CE | | CE Compliant |
| Hold-up Time | @120VAC<br>@240VAC | 17ms, Typical<br>30ms, Typical |
| Storage Temp | | -30° C to +85° C |
| Approvals and Safety Standards | | UL/cUL60950-1, TUV:EN60950-1 |
| Weight | | 4.80 Ounces, 136 Grams |
| MTBF | | 500,000 Calculated Hours |
| Case and Dimension | | 3.35L x 1.81W x 1.30H (in)<br>85.0L x 46.0W x 33.0H (mm) |
| Case Material | | Black 94VO Polycarbonate |
| Cord and Connectors | | 6ft. 2 Conductor, 18AWG, 20AWG, 22AWG, AULT#3 Connector. Other connectors are also available. |

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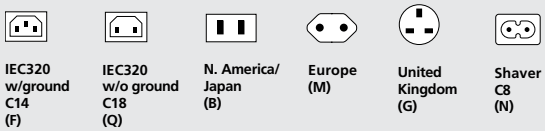
| Ault Part Number | Output Voltage | Output Currents Min | Output Currents Max | Max Watts |
|---|---|---|---|---|
| PW149RB05XXX01 | 5 V | 0.00 A | 2.00 A | 10.0 W |
| PW149RB09XXX01 | 9 V | 0.00 A | 1.30 A | 12.0 W |
| PW149RB12XXX01 | 12 V | 0.00 A | 1.00 A | 12.0 W |
| PW149RB15XXX01 | 15 V | 0.00 A | 0.80 A | 12.0 W |
| PW149RB18XXX01 | 18 V | 0.00 A | 0.67 A | 12.0 W |
| PW149RB24XXX01 | 24 V | 0.00 A | 0.50 A | 12.0 W |
| PW149RB33XXX01 | 33 V | 0.00 A | 0.36 A | 12.0 W |
| PW149RB48XXX01 | 48 V | 0.00 A | 0.25 A | 12.0 W |

### Ault Part Number Key

| PW149 | R | B | 48 | XX | X | 01 |
|---|---|---|---|---|---|---|
| Product Family Name | Manufacturing Location | Design Revision Changes | Voltage DC | Connector Number | Input Configuration/ Model Type | Standard (no modifications or special packaging) |

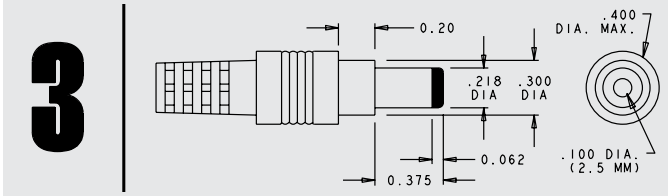
### Input Configuration



IEC320 w/ground C14 (F) | IEC320 w/o ground C18 (Q) | N. America/ Japan (B) | Europe (M) | United Kingdom (G) | Shaver C8 (N)

Specify the Input Configuration Code in your order.

### Pin Connections




| | |
|---|---|
| Pinout Code | Center contact: positive |
| Description | Switchcraft 760 plug or equivalent |
| Suggested Mating | Switchcraft 712A jack or equivalent |

Other Connectors are available by special order

### 2007 Energy Independence and Security Act – EISA

The Energy Independence and Security Act of 2007 was passed in December of 2007 and addresses minimum efficiency standards and standby levels for Class A external power supplies that are 250 watts and under. This law stipulates that external power supplies manufactured on July 1, 2008 and beyond meet certain minimum efficiency and standby criteria as defined below.

**Minimum Efficiency Criteria**

Active mode is defined as when a power supply's input is connected to line voltage AC and its output is connected to a DC or AC load drawing a portion of the product's power output. Depending on the power rating for the power supply, it must meet the minimum efficiency criteria outlined below.

**Energy-Efficiency Criteria for Active Mode:**

| output power on adapter label | minimum average efficiency percentage |
|---|---|
| 0 to ≤ less than 1 watt | ≥ 0.50 * output power on adapter label |
| > 1 to ≤ 51 watts | ≥ [0.09 * Ln (output power on adapter label )] + 0.50 |
| > 51 watts | ≥ 0.85 |

The power supply must also meet a requirement for when its input is connected to a line voltage AC but its output is not connected to a load. Depending on the power output of the supply, it must keep its energy consumption below the following values.

**Energy Consumption Criteria for No Load Mode:**

| output power on adapter label | maximum power consumption in no-load mode |
|---|---|
| 0 to < 250 watts | ≤ 0.5 watts |

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SL Power Electronics Corp • 6050 King Drive • Ventura, CA 93003 • Phone:805.486.4565 • Fax:805.487.8911 • Email:info@slpower.com • www.slpower.com



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