PW148
Universal 19.2 Watt Series

SL POWER ELECTRONICS

ITE / Switch Mode Power Supply

1 Year Warranty

- *Universal Input 100 to 240VAC*
- *Meets ENERGY STAR Criteria*
- *Desktop and Wall Plug Styles*
- *Six Models Available; 9V to 48V*
- *Meets Safety Agency Requirements*
- *Complies with EMI/RFI Regulations*
- *CE Compliant*
- *Impact Resistant Polycarbonate Enclosure*
- *Private Label Marking Available*
- *Modified and Custom Designs also Available*

ENERGY STAR

AULT

International Safety Standard Approvals

RoHS

Specifications

Output Specifications

Line and Load Voltage Regulation	Excluding cord	+/-1%
Ripple		1% Vp-p max.
Transient Response		0.5ms for 50% Load change Typ.
Protection		Foldback Over-current Protection Short Circuit Protection

Input Specifications

Voltage		100-240VAC -10%, +6%
Line Frequency		47-63Hz
Input Current	90VAC Input	0.6A max.
Protection		Internal Primary Current Fuse, Inrush Limiting

Environmental Specifications

Thermal Performance	Operating temperature 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		3000 VAC, 4250 VDC Primary-Secondary
Spacing		5mm Primary-Secondary
Leakage Current		Less than 250 uA
Efficiency		Meets Energy Star Requirements
EMI		Complies with EMC Directives
CE		CE Compliant
Hold-up Time	@120VAC @240VAC	10ms typ. 40ms typ.
Storage Temp		-30° C to 85° C
Approvals and Standards	Safety	cULus : UL/CSA60950-1 TUV : EN60950-1
Weight	(excluding cord)	7 Ounces, 198 Grams
MTBF		100,000 Calculated Hours
Case and Dimension		3.74L x 2.13W x 1.26H (in) 95.0L x 54.0W x 32.0H (mm)
Case Material		Black 94V0 Polycarbonate
Cord and Connectors		6ft. 2 Conductor, 18AWG, 20AWG, 22AWG. AULT#3 Connector. Other connectors are also available.

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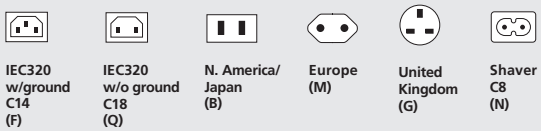
Ault Part Number	Output Voltage	Output Currents Min	Output Currents Max	Max Watts	Ripple Vp-p max.
PW148RA0903_01	9 V	0.00 A	2.00 A	18.0 W	90 mV
PW148RA1203_01	12 V	0.00 A	1.50 A	18.0 W	120 mV
PW148RA1503_01	15 V	0.00 A	1.20 A	18.0 W	150 mV
PW148RA1803_01	18 V	0.00 A	1.00 A	18.0 W	180 mV
PW148RA2403_01	24 V	0.00 A	0.75 A	18.0 W	240 mV
PW148RA3303_01	33 V	0.00 A	0.54 A	18.0 W	330 mV
PW148RA4803_01	48 V	0.00 A	0.40 A	19.2 W	480 mV

Ault Part Number Key

PW148	R	A	48	00	_	01
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number	Input Configuration/ Model Type	Standard (no modifications or special packaging)

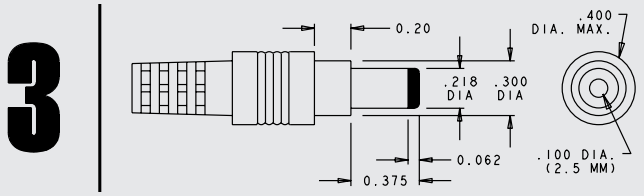
Input Configuration



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

Energy Star Specifications

Power Supplies that are single voltage external AC to DC and AC to AC included with other retail products and single voltage external AC to DC or AC to AC power supplies sold separately; and consumer audio and video equipment, which includes compact audio products, DVD players and recorders as well as television adapters. (Please refer to the reverse side of data sheet for specifications and marking protocol.)

Energy-Efficiency Criteria for Active Mode

To be eligible for ENERGY STAR qualification, an external power supply must meet or exceed a minimum efficiency for Active Mode, which varies based on the model's nameplate output power. The table below outlines the equations for determining minimum average efficiency.

Nameplate Output Power	Minimum Average Efficiency in Active Mode
0 to ≤ 1 watt	≥ 0.49 * Pno
> 1 to ≤ 49 watts	≥ [0.09 * Ln (Nameplate Output)] + 0.49
> 49 watts	≥ 0.84

Energy Consumption Criteria for No Load

The second half of the ENERGY STAR specification is the No-Load power requirement, which specifies the maximum AC power that may be used by a qualifying external power supply in the No-Load condition. Maximum power consumption levels for No-Load Mode are provided below.

Nameplate Output Power	Maximum Power in No-Load
0 to < 10 watts	≤ 0.5 watts
≥ 10 to ≤ 250 watts	≤ 0.75 watts

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