MW152
Universal 50 Watt Series

SL POWER ELECTRONICS

Medical / Switch Mode Power Supply — **3 Year Warranty**

- *100-240 VAC Universal Input*
- *Desktop Style*
- *Single Output to 50W*
- *Six Models Available; 5V to 24V*
- *Regulated Output with Low Ripple*
- *Impact Resistant Polycarbonate Enclosure*
- *Modified and Custom Designs*
- *No Load Power Consumption < 0.75W*
- *Meets ENERGY STAR Requirements see reverse side for details*

ENERGY STAR

AULT

International Safety Standard Approvals

c UL us CE 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 Typical
Protection		Over-current Protection (Hiccup) Short Circuit Protection

Input Specifications

Input Voltage Range	Universal input	100-240VAC -10%, +10%
Line Frequency		47-63Hz
Input Current	90VAC Input	1.2A max.
Protection		Internal Primary Current Fuse, Inrush Limiting

Environmental Specifications

Thermal Performance	Operating temperature full load, 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
Efficiency	5V and 9V 12V to 24V	70% min. ≥ 84%
Hold-up Time	@120VAC @240VAC	18ms min. 80ms min.
Dielectric Withstand		3,000VAC, 4,250VDC Primary-Secondary
Storage Temp		-30° C to 85° C
Approvals and Safety Standards		UL60601-1, IEC/EN60601-1 EMC : EN55024 / EN60601-1-2
MTBF		100,000 Calculated Hours
Case and Dimension		LP6 4.20L x 2.60W x 1.46H (in) 107.0L x 66.0W x 37.0H (mm)
Case Material		Black 94V0 Polycarbonate
Cord and Connectors		6ft. 2 Conductor, 18AWG, AULT#3 Connector. Other connectors are also available.

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For the most current data and application support visit www.slpower.com

Ault Part Number	Output Voltage	Output Currents Min	Output Currents Max	Max Watts	Ripple Vp-p max.
MW152KA05XX*	5 V	0.00 A	6.00 A	30.0 W	50 mV
MW152KA09XX*	9 V	0.00 A	5.00 A	45.0 W	90 mV
MW152KA12XX	12 V	0.00 A	4.20 A	50.4 W	120 mV
MW152KA15XX	15 V	0.00 A	3.33 A	50.0 W	150 mV
MW152KA18XX	18 V	0.00 A	2.80 A	50.4 W	180 mV
MW152KA24XX	24 V	0.00 A	2.00 A	48.0 W	240 mV

Ault Part Number Key

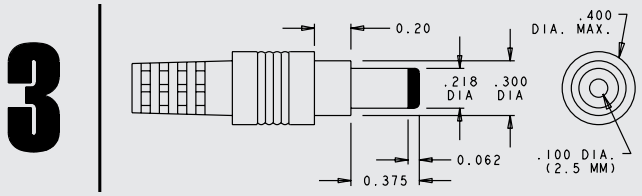
MW152	K	A	05	XX
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number

Input Configuration

IEC320
w/ground
C14
(F)

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

*Does not meet Energy Star requirements

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Rev.9/22/06