MW173KB





Medical Switch-Mode Power Supply

3 Year Warranty

- •100-240VAC Universal Input
- ·Desktop Style
- •5V to 24V Single Output Models, up to 32W
- ·Modified and Custom Designs
- ·Regulated Output with Low Ripple
- ·Impact-Resistant Polycarbonate Enclosure
- •No load Power Consumption < 0.50W
- •Designed to meet EISA Requirements (see page 3 for details).





International Safety Standard Approvals



Specifications		All Specification	ons are typical at nominal in	put, full load at 25°C unless	otherwise stated.
Output Specification	ıs		General Specification	ons	
Line and Load Voltage Regulation	Excluding Cord	Line: +/-1% Load: +/-5%	Topology Efficiency		Switching - Fixed Frequency Flyback
Disaste		40/ 1/2			Designed to meet EISA
Ripple		1% Vp-p max.			Requirements - see page 3
Transient Response		0.5mS for 50% Load Change, typical.	Hold-up Time	@ 115VAC	18mS, min.
Protection		Overcurrent Protection (Hiccup). Short Circuit Protection	Dialectric Withstand		4,000VAC or 5,656VDC Primary-Secondary; 1,500VAC or 2,150VDC Primary - F.G;
Input Specifications					500VDC Secondary - F.G.
Input Voltage Range	Universal Input	100-240VAC, -10%, +10%	Storage Temp.		-30° C to 85° C
Line Frequency	90 VAC	47-63Hz 1.0A, max.	Approvals and Safety Standards		UL60601-1 IEC/EN60601-1 EMC: EN60601-1-2/
•	30 VAO	,			EN55024
Protection		Internal Primary Current Fuse, Inrush Limiting	MTBF		100,000 Calculated Hours
					•
Environmental Spec Thermal Performance	ifications Operating Temperature full load, no derating, convection cooling, Non- vented case		Case and Dimensions		Desktop Style: 3.74"L x 2.13"W x 1.26"H 95mm L x 54mm W x 33mm H
			Case Material		Black 94V0 Polycarbonate
			Cord and Connectors		18AWG, 1,800mm 2 conductor. (5V, 6V model:
Relative Humidity	Non-condensing	5% to 95%	Connectors		1,500mm). Ault #3 connecto
Altitude		0 to 10,000 feet			Other connectors are available.

MW173KB



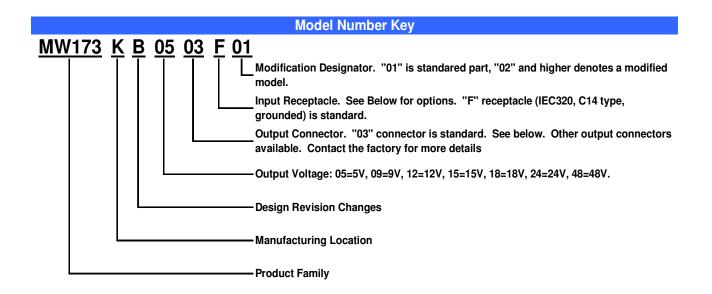


Medical Switch Mode Power Supply

3 Year Warranty

OUTPUT PARAMETERS						
Model Number	Volts (V)	Output Current (max)	Max Watts	Ripple (Vp-p max)		
MW173KB0503F01	5 V	4.00 A	20.0 W	50mV		
MW173KB0603F01	7.5 V	3.00 A	22.5 W	75mV		
MW173KB0903F01	9 V	3.00 A	27.0 W	90mV		
MW173KB1203F01	12 V	2.50 A	30.0 W	120mV		
MW173KB1503F01	15 V	2.00 A	30.0 W	150mV		
MW173KB1803F01	18 V	1.67 A	30.0 W	180mV		
MW173KB2403F01	24 V	1.33 A	32.0 W	240mV		

Note: Part numbers above include #3 output connector and IEC320 C14 grounded input receptacle. See below for other options.



AC Input Receptacle Options							
	Wall-Plug						
••		©	11				
IEC320 - C14	IEC320 - C18	IEC320 - C8	N. America				
Class I	Class II	Class II	Japan				
Grounded	Ungrounded	"Shaver"	Fixed				
(F)	(Q)	(N)	(B)				

MW173KB





Medical Switch Mode Power Supply

3 Year Warranty

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 a line voltage AC and it's output is connected to a DC or AC load, drawing a portion of the product's power output. Depending upon the power rating for the power supply, it must meet the minimum efficiency criteria outlined below.

Energy-Efficiency Criteria for Active Mode:

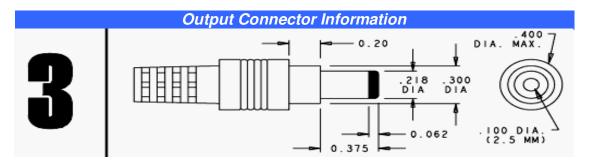
Output Power on Adapter Label
0 to < 1 Watt
> 1 watt to ≤ 51 watts
> 51 watts

Minimum Average Efficiency Percentage ≥ 0.50 * output power on the label $\geq [0.09$ * Ln (output power on adapter label)] + 0.50 ≥ 0.85

Energy Consumption Criteria for No Load Mode:

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

Output Power on Adapter Label 0 to < 250 Watts <u>Maximum Power Consumption in No-Load Mode</u> ≤ 0.50 watts



Notes:

- 1. Center Contact = Positive
- 2. Connector is Switchcraft 760 plug or equivalent.
- 3. Suggested Mating Connector is Switchcraft 712A jack or equivalent.
- 4. Other output connector options are available. Contact your local representative for details.

Data Sheet © 2011 SL Power Electronics Corp. The information and specifications contained herein are believed to be correct at the time of publication. Rev. 2-13-2011 However, SL Power accepts no responsibility for consequences arising from reproduction errors or inaccuracies. Specifications are subject to change without notice.