# **MW173KB**

Universal 20 – 32 Watt Series 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

## ։ 🖫 🕻 🤆 RoHS



Specifications		All Specifications are typical at nominal input, full load at 25°C unless otherwise stated.				
<b>Output Specification</b>	າຣ		<b>General Specificatio</b>	ns		
Line and Load Voltage Regulation	Excluding Cord	Line: +/-1% Load: +/-5%	Topology		Switching - Fixed Frequency Flyback	
			Efficiency		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; 500VDC Secondary - F.G.	
Input Voltage Range		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/	
Protection		Internal Primary Current Fuse,	MTBF		EN55024	
		Inrush Limiting			100,000 Calculated Hours	
Environmental Spec Thermal Performance	Operating Temperature full load, no derating,		Case and Dimensions		Desktop Style: 3.74"L x 2.13"W x 1.26"H 95mm L x 54mm W x 33mm H	
	convection cooling, Non- vented case		Case Material		Black 94V0 Polycarbonate	
			Cord and Connectors		18AWG, 1,800mm 2 conductor. (5V, 6V model:	
Relative Humidity	Non-condensing	5% to 95%			1,500mm). Ault #3 connector Other connectors are available.	
Altitude		0 to 10,000 feet				

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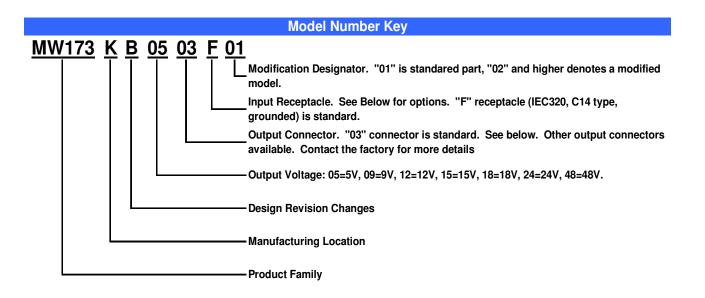
Medical Switch Mode Power Supply



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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						
••		$\bigcirc \bigcirc$					
IEC320 - C14	IEC320 - C18	IEC320 - C8	N. America				
Class I	Class II	Class II	Japan				
Grounded	Ungrounded	"Shaver"	Fixed				
(F)	(Q)	(N)	(B)				

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#### 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  $\leq$  51 watts > 51 watts

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

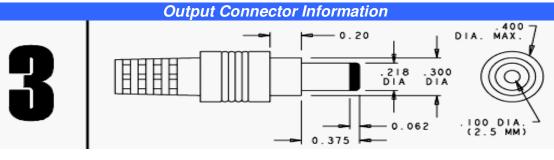
### Energy Consumption Criteria for No Load Mode:

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

Maximum Power Consumption in No-Load Mode  $\leq$  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.

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