# **NV173**Universal 20-32 Watt Series



# Medical / Switch Mode Power Supply

# 3 Year Warranty

- 100-240 VAC Universal Input
- Desktop and Wall Plug Style
- Single Output to 32W
- 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 Program Requirements see reverse side for details



**International Safety Standard Approvals** 





# **Specifications**

Output Specification	S	
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	1.0A max.
Protection		Dual 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 Specificat	tions	
Topology		Switching-Fixed Frequency Flyback
Efficiency	5V 9V to 24V	70% min. 78% min.
Hold-up Time	@120VAC	18ms min.
Dielectric Withstand		4,000VAC, 5,656VDC Primary-Secondary
Storage Temp		-30° C to 85° C
Approvals and Safety Standards		UL60601-1, IEC/EN60601-1 EMC : EN60601-1-2 EN55024
MTBF		100,000 Calculated Hours
Case and Dimension		LP4N 3.74L x 2.13W x 1.26H (in) 95.0L x 54.0W x 32.0H (mm)
Case Material		Black 94V0 carbonate
Cord and Connectors	S	6ft. 2 Conductor, 18AWG, AULT#3 Connector. Other connectors are also available.

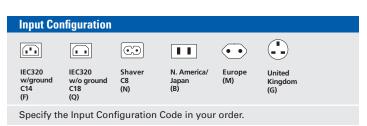


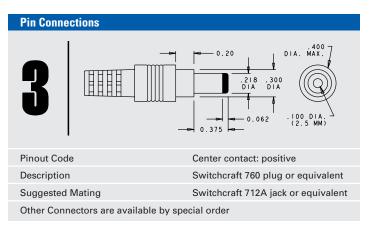
## Medical / Switch Mode Power Supply

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

	Output	Output Currents		Max	Ripple
Ault Part Number	Voltage	Min	Max	Watts	Vp-p max.
MW173KA05XX*	5 V	0.00 A	4.00 A	20.0 W	50 mV
MW173KA09XX	9 V	0.00 A	3.00 A	27.0 W	90 mV
MW173KA12XX	12 V	0.00 A	2.50 A	30.0 W	120 mV
MW173KA15XX	15 V	0.00 A	2.00 A	30.0 W	150 mV
MW173KA18XX	18 V	0.00 A	1.67 A	30.1 W	180 mV
MW173KA24XX	24 V	0.00 A	1.33 A	31.9 W	240 mV

Ault Part Number Key				
MW173	K	А	03	XX
Product Family Name	Manufacturing Location	Design Revision Changes	Voltage DC	Connector Number





## **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

 $0 \text{ to} \leq 1 \text{ watt}$ ≥ 0.49 \* Pno

 $\geq$  [0.09 \* Ln (Nameplate Output)] + 0.49 > 1 to ≤ 49 watts

> 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** 

≤ 0.5 watts 0 to < 10 watts ≤ 0.75 watts ≥ 10 to ≤ 250 watts



<sup>\*</sup>Does not meet Energy Star requirements