



## **MWA020 Class II**

20 Watt Medical Desktop Power Supply

- High Efficiency
- Fully Regulated DC Output
- 5 Year Limited Warranty
- Hold-Up Time > 18ms at full load
- Safety Approval EN60601-1 Class II 3rd Edition
- Level V, EuP Directive Compliant
- LED indicator

Elpac Part Number	Output Voltage	Output Current	Peak Current <sup>1</sup>	Total Regulation <sup>2</sup>	Typical Efficiency <sup>3</sup>
MWA020005B-10A	5.0V	4.0A	4.2A	+/-5%	80%
MWA020009B-10A	9.0V	2.22A	2.3A	+/-5%	83%
MWA020012B-10A	12.0V	1.67A	1.75A	+/-5%	84%
MWA020024B-10A	24.0V	0.84A	0.87A	+/-5%	86%

## Notes

<sup>3</sup> Typical at 115VAC (including output cable).

Input	
Input Voltage	85–264VAC; 100–240VAC Nominal
Input Frequency	47–63Hz
Input Current	<0.5A
Inrush Current	<50A at 230VAC cold start
Zero Load Power Consumption	<0.3W
Earth Leakage Current (Typical)	<40µA @ 132VAC @ 60Hz (typical)
	<60µA @ 264VAC @ 60Hz (typical)

<sup>1</sup> Maximum peak load (21W) lasting 500ms with a maximum 10% duty cycle.

<sup>2</sup> Includes initial setting, line regulation, load regulation, and thermal drift.

Output

Output Voltage See Part Number Table

Total Regulation +/- 5%

Minimum Load No minimum load required

Start-Up Delay <1.5s

Hold-Up Time >18ms at any input voltage

Ripple & Noise <1% pk-pk

Over Voltage Protection 112-135%

Over Temperature Protection Active - Recoverable: plus Passive - Non Recoverable

Over Current Protetion 108-160%

Short Circuit Protection shutdown, auto-restart (hiccup mode)

**General** 

Efficiency Avg Efficiency 83.4% at 115VAC; 82.8% @ 230VAC

MTBF min. 200,000 hours demonstrated

Size 3.45" (87.7mm) x 2.04" (5.18mm) x 1.30" (33.0mm)

Weight 5V 0.4lbs (0.2Kg); 24V 0.3 lbs (0.16Kg)

Power Density 3.1 w/in³

**Environmental** 

Operating Temperature 0-60°C (Full load to 40°C, derate linearly to 50% load to 60°C)

Storage Temperature -40°C to +85°C

Relative Humidity 5-95%, non-condensing

Cooling Natural convection

Vibration All units production tested to 19.6m/s<sup>2</sup>

**EMC & Safety** 

Emissions FCC class B, CISPR11 class B, EN6100-3-2, -3

Immunity EN61000-4-2, -3, -4, -5, -6, -8, -11

Certified by TUV to the following: cTUVus

UL 60601-1

CAN/CSA-22.2 No.601

CB per IEC6061-1 2nd and 3rd Edition

CE marked to LVD directive

**Input Configuration** 

Standard Input Cable Not Provided

Connection on Power Supply Body IEC 320 C8 Receptacle

**Output Configuration** 

Standard Output Cable 6 ft.

Cord Size 16AWG zip (5V, 9V)

18AWG zip (12V) 20AWG zip (24V)

Connector (PSU side) Switchcraft 760 or equivalent

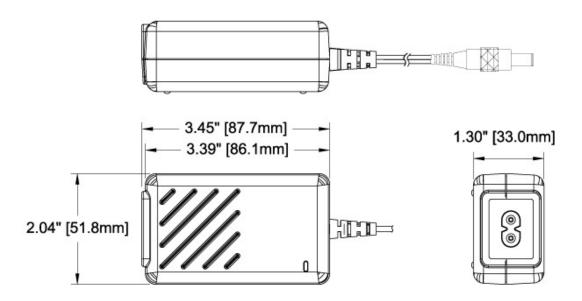
Mating Connector Switchcraft 712A or equivalent

**Output Pin Assignments** 

Rtn **—** +V

Center +v1

Outside Return



12V and 24V Model

