



MWA020 Class I

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 I 3rd edition
- Level V, EuP Directive Compliant
- LED Indicator

Elpac Part Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
MWA020005A-10A	5.0V	4.0A	4.2A	+/-5%	80%
MWA020009A-10A	9.0V	2.22A	2.3A	+/-5%	83%
MWA020012A-10A	12.0V	1.67A	1.75A	+/-5%	84%
MWA020024A-10A	24.0V	0.84A	0.87A	+/-5%	86%

Notes

1 maximum peak load (21W) lasting 500ms with a maximum 10% duty cycle

2 Includes initial setting, line regulation, load regulation, and thermal drift

³ Typical at 115VAC (including output cable).

Input			
Input Voltage	85-264VAC; 100-240VAC Nominal		
Input Frequency	47-63Hz		
Input Current	<0.5A rms		
Inrush Current	<50A @ 230VAC cold start		
Zero Load Power Consumption	<0.3W		
Earth Leakage Current (Typical)	<100µA @ 132VAC @ 60Hz (typical)		
	<150µA @ 264VAC @ 60Hz (typical)		

Output

Output Voltage See Model Overview 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% - 180%

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" x 2.04" x 1.30" | 87.7mm x 51.8mm x 33.0mm

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

Power Density 3.0 W/in³

Environmental

Operating Temperature $0-60^{\circ}$ C (Full load to 40° C, derate linearly to 50% load at 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/s2

EMC & Safety

Emissions FCC class B, CISPR11 class B EN61000-3-2, -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 IEC60601-1 2nd and 3rd Edition

CE marked to LVD Directive

Input Configuration

Standard Input Cable Not Provided

Connection on Power Supply Body IEC 320 C14 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

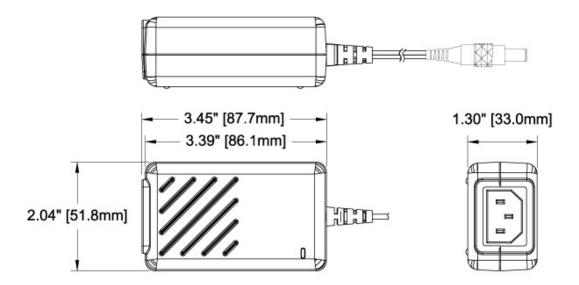
Mating Connector Switchcraft 712A or equivalent

Output Pin Assignments

Rtn **-** +V

Center +v1

Outside Return



12V and 24V Model

