



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

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 Pow er Consumption	<0.3W			
Earth Leakage Current (Typical)	<100μA @ 132VAC @ 60Hz (typical)			
	<150μA @ 264VAC @ 60Hz (typical)			

Output			
Output Vo l tage	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**		

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

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

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)

Pow er Density 3.0 W/in³

Environmental

Operating Temperature $0-60^{\circ}\text{C}$ (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 Pow er Supply Body IEC 320 C14 Receptacle

Output Configuration

Standard Output Cable 6 ft.

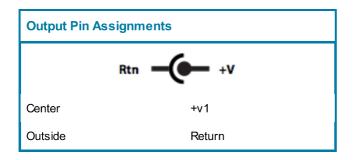
Cord Size 16AWG zip (5V, 9V)

18AWG zip (12V)

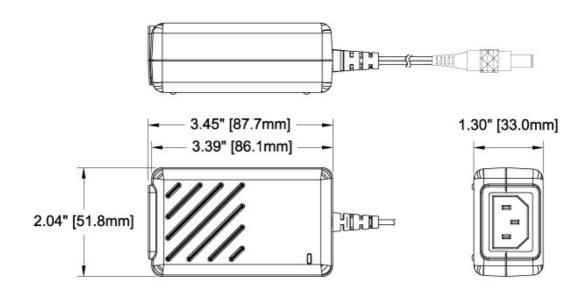
20AWG zip (24V)

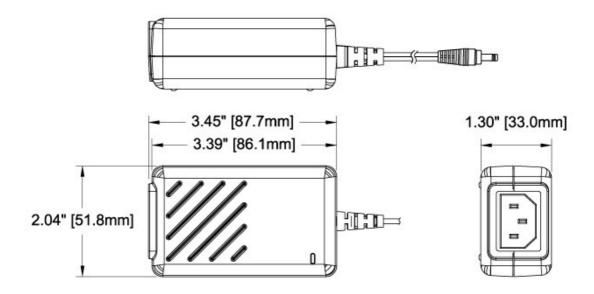
Connector (PSU side) Sw itchcraft 760 or equivalent

Mating Connector Sw itchcraft 712A or equivalent



5V and 9V Model





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