



MWA050 Class I

50 Watts Medical Desktop Power Supply

- High Efficiency
- Fully Regulated DC Output
- 5-Year Limited Warranty
- Hold-up Time>16ms at full load
- Safety Approval-EN60601-1 Class I
- Level V, EuP Directive Compliant
- LED Indicator

Elpac Part Number	Output Voltage	Output Current	Peak Current	Total Regulation	Typical Efficiency
MWA05009A-10A	9.0V	5.0A	6.0A	+/-5%	87.6%
MWA050012A-10A	12.0V	4.25A	5.0A	+/-5%	88.6%
MWA050015A-10A	15.0V	3.3A	4.0A	+/-5%	89.8%
MWA050018A-10A	18.0V	2.8A	3.5A	+/-5%	90.6%
MWA050024A-10A	24.0V	2.1A	2.5A	+/-5%	90.6%
MWA050048A-10A	48.0V	1.05A	1.3A	+/-5%	90.3%

Input

Input Voltage	85-264VAC; 100-240VAC Nominal
Input Frequency	47-63Hz
Input Current	<1.0A rms
Inrush Current	<60A @ 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	>16ms 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 Protection	108% - 180%
Short Circuit Protection	Shutdown, auto-restart (hiccup mode)

General

Efficiency	Avg Efficiency 89% at 115VAC; 88% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	3.53" x 1.92" x 1.00" 89.6mm x 48.4mm x 25.2mm
Weight	9V 0.6lbs (0.27Kg); 24V 0.5 lbs (0.23Kg)
Power Density	7.4 W/in³

Environmental	
Operating Temperature	0 – 60°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/s ²

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-Z2.2 No.601
	CB per IEC6061-1 3rd Edition
	CE marked to LVD directive

Input Configuration	
Standard Input Cable	Not Provided
Connection on Power Supply Body	IEC 320 C6 Receptacle

Output Configuration	
Standard Output Cable	4 ft.
Cord Size	12-15V: 2x16awg zip; 18-24V: 2x18awg zip
Connector (PSU side)	Switchcraft 760 or equivalent
Mating Connector	Switchcraft 712A or equivalent

Output Pin Assignments	
	
Center	+v1
Outside	Return

