



ELPAC MWA180 SERIES

180 Watt
Medical Desktop Power Supply

- High Efficiency
- High Power Density 5.9W/in³
- 5-Year Limited Warranty
- LED Status Indicator
- IPX1 Rated
- Hold-up Time > 25ms at full load
- Medical Approval - EN60601-1 Class I 3rd Edition
- Level V; EISA, EuP Directive Compliant
- CEC Compliant



INPUT	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<3A rms
Inrush Current	<37A at 230VAC cold start
Power Factor	>0.97
Zero Load Power Consumption	<0.5W
Earth Leakage Current (Typical)	<200µA @ 132VAC @ 60Hz
	<300µA @ 264VAC @ 60Hz
Patient Leakage Current	<100µA @ 132VAC @ 60Hz
	<100µA @ 264VAC @ 60Hz

OUTPUT	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<1.5s
Hold-Up Time	>25ms at any input voltage
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	110 – 135%
Over Temperature Protection	Active - Recoverable; plus Passive - Non Recoverable
Over Current Protection	105 – 110%
Short Circuit Protection	Shutdown, auto-restart (hiccup mode)

Notes

**Ripple and noise measured with 20MHz bandwidth; 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor.

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Model Number	Output Voltage	Output Current	Peak Current	Total Regulation	Typical Efficiency
MWA180012A-13A	12.0V	15.0A	18.0A	±5%	89%
MWA180018A-13A	18.0V	10.0A	12.0A	±5%	90%
MWA180024A-12A	24.0V	7.5A	9.0A	±5%	90%
MWA180048A-11A	48.0V	3.75A	4.5A	±5%	91%

General	
Efficiency	Avg. Efficiency 90.5% @ 115VAC; 92.5% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	8.2" (208mm) x 2.9" (73mm) x1.6" (39mm)
Weight	2.1 lbs (0.95 kg)
Power Density	5.9W/in ³

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	EN55011 and FCC Part 15, Class B Conducted and Radiated
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.601.1-M90
	IEC606011, 2nd and 3rd edition
	CE marked to LVD

Input Configuration	
Standard Input Cable	Not Provided
Connection on Power Supply Body	IEC 320 C14 Receptacle

Output Configuration	
Standard Output Cable	4ft for 12V & 18V 6ft for 24V, 32V & 48V
Cord Size	4x16awg (12V, 18V); 4x18awg (24V, 32V); 2x16awg (48V)
Connector (PSU side)	Molex 6 pin P/N 39-01-2065 (12V, 18V); Switchcraft DIN-8, P/N 15BL8MX (male pins) (24V, 32V); Switchcraft DIN5, P/N 05GM5MX (male pins) (48V)
Mating Connector	Molex 39-01-2061 or 26-01- 3116 (12V, 18V); Switchcraft 62GB8FX (8 pin) or equivalent

Output Pin Assignments		
Pin 1	+V1	<p>DIN-8</p>
Pin 2	+V1	
Pin 3	Return	
Pin 4	+V1	
Pin 5	Return	
Pin 6	+V1	
Pin 7	Return	
Pin 8	Return	

