



ELPAC MWA120 SERIES CLASS I

120 Watt
Medical Desktop Power Supply

- Medical Approval - EN60601-1 Class I 3.1 Edition
- EMC safety - IEC/EN 60601-1-2 4th edition
- Low Leakage Current
- High Efficiency: Level V
- High Power Density 4.32W/in³
- Lifetime Expectation >5 years
- LED Indicator
- 5-Year Limited Warranty



INPUT	
Input Voltage	85 – 264VAC (100 – 240VAC Nominal)
Input Frequency	47 – 63Hz (50-60Hz Rated)
Input Current	2.0A-0.9A rms
Inrush Current	<37A at 230VAC cold start
Power Factor	>0.97
Zero Load Power	<0.5W
Earth Leakage Current (Typical)	<200µA @ 132VAC @ 60Hz
	<400µA @ 264VAC @ 60Hz
Touch Leakage Current	<50µA @ 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	>30ms at any input voltage of full load
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	110 – 135%
Over Temperature Protection	Active - Recoverable; Passive - Non recoverable
Over Current Protection	120 – 180%
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.

Model Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
MWA120012A-12A	12.0V	10.0A	12.0A	±5%	89%
MWA120015A-12A	15.0V	8.0A	9.6A	±5%	90%
MWA120018A-12A	18.0V	6.67A	8.0A	±5%	90%
MWA120024A-12A	24.0V	5.0A	6.0A	±5%	91%
MWA120028A-11A	28.0V	4.29A	5.1A	±5%	91%
MWA120048A-11A	48.0V	2.5A	3.0A	±5%	92%

Notes

1) Maximum peak load (144W) 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).

4) AC cord not included-AC cord part number 67400-185-EB can be ordered separately.

ELPAC MWA120 SERIES CLASS I

120 Watt
Medical Desktop Power Supply

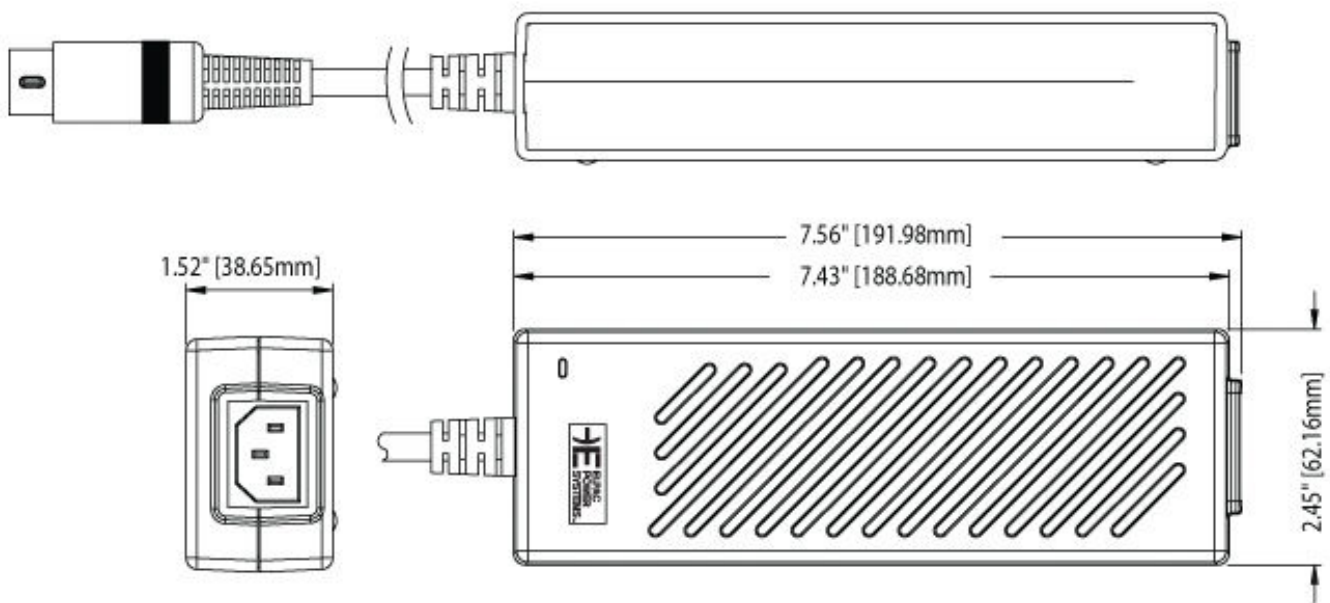
inventusTM
POWER

General		Environmental		EMC & Safety	
Efficiency	Avg. Efficiency 90.0% @ 115VAC; Avg. Efficiency 92.0% @ 230VAC;	Operating Temperature	0–60°C (Full load to 40°C, derate linearly to 50% load at 60°C)	Emissions	FCC class B, CISPR11 class B IEC/EN60601-1-2(Ed.4) EN61000-3-2, -3
MTBF	min. 200,000 hours, SR-332 issue 3	Storage Temperature	-40°C to +85°C	Immunity	EN61000-4-2, -3, -4, -5, -6, -11
Size	7.56" (192mm) x 2.45" (62.2mm) x 1.52" (38.7mm)	Relative Humidity	5-93%, non-condensing	Certified by TUV to the following:	cTUVus
Weight	1.55 LBS (0.7 Kg)	Cooling	Natural Convection		ANSI/AAMI ES60601-1:2005+A2+A1
Power Density	4.32W/in ³	Vibration	Unites meet MIL-STD-810G Figure 514.6C-1 category 4		CAN/CSA-C22.2 No.60601-1:14
					CB per IEC60601-1 3.1 Edition
					CE marked to LVD and CE EMC

Input & Output Configuration		Output Pin Assignments		Output Pin Assignments	
Standard Input Cable	Not Provided Separately (P/N 67400-185-EB)	Pin 1	+V1	Pin 1	+V1
Connection on Power Supply Body	IEC 320 C14 Receptacle	Pin 2	+V1	Pin 2	+V1
Standard Output Cable	4ft for 12V, 15V 6ft for 18V, 24V, 28V, 48V	Pin 3	Return	Pin 3	Return
Output Cable Cord Size	4x16awg (12V, 15V, 18V) 4x18awg (24V*, 28V*, 48V)	Pin 4	+V1	Pin 4	+V1
Output Cable Connector	Switcraft DIN-8, P/N 15BL8M (12V, 15V, 18V, 24V) Switcraft DIN-5, P/N 05GM5M (28V, 48V)	Pin 5	Return	Pin 5	Return
Output Cable Mating Connector	Switcraft 62GB8FX (8 pin) or equivalent (12V, 15V, 18V, 24V) Switcraft 57GB5FX (5 pin) or equivalent (28V, 48V)	Pin 6	+V1		
		Pin 7	Return		
		Pin 8	Return		

*with EMI bead

Mechanical Drawing



MWA120-DWG