



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## ELPAC MWA150 SERIES CLASS I

150 Watt  
Medical Desktop Power Supply

- Medical Approval - EN60601-1 Class I 3rd Edition
- High Efficiency: Level V
- High Power Density 5.4W/in<sup>3</sup>
- Lifetime Expectation >5 years
- Hold-up Time >25ms at full load
- Floating Output
- 5-Year Limited Warranty



INPUT	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<2A 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
Touch Leakage Current	<50µA @ 132VAC @ 60Hz
	<75µA @ 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	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.



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150 Watt

Medical Desktop Power Supply



Model Number	Output Voltage	Output Current	Peak Current <sup>1</sup>	Total Regulation <sup>2</sup>	Typical Efficiency <sup>3</sup>
MWA150012A-12A	12.0V	12.5A	15.0A	±5%	89%
MWA150015A-12A	15.0V	10.0A	12.0A	±5%	90%
MWA150018A-12A	18.0V	8.3A	10.0A	±5%	90%
MWA150024A-12A	24.0V	6.3A	7.5A	±5%	91%
MWA150028A-11A	28.0V	5.3A	6.4A	±5%	91%
MWA150048A-11A	48.0V	3.2A	3.75A	±5%	92%

**Notes**

- 1) Maximum peak load (180W) 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).

General		Environmental		EMC & Safety	
Efficiency	Avg. Efficiency 90.8% @ 115VAC; 92.8% @ 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 EN61000-3-2, -3
MTBF	min. 200,000 hours demonstrated	Storage Temperature	-40°C to +85°C	Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
Size	7.56" (192mm) x 2.45" (62.2mm) x 1.52" (38.7mm)	Relative Humidity	5-95%, non-condensing	Certified by TUV to the following:	cTUVus
Weight	1.55 lbs (0.70 Kg)	Cooling	Natural Convection		UL 60601-1
Power Density	5.4W/in <sup>3</sup>	Vibration	All units production tested to 19.6m/s <sup>2</sup>		CAN/CSA-22.2 No.601.1-M90
					CB per IEC60601-1
					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 & 15V 6ft for 18V, 24V, 28V & 48V
Cord Size	4x16awg (12V& 18V); 4x18awg (24V & 48V*)
Connector (PSU side)	Switchcraft DIN-8 P/N 15BL8M (male pins)
Mating Connector	Switchcraft 62GB8F (8 pin) or equivalent (12V, 15V, 18V, 24V) Switchcraft 62GB8F (5 pin) or equivalent (30V, 48V)

\*with EMI bead

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

