



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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## MWA100 Series

### 100 Watt Medical Desktop Power Supply

- High Efficiency
- High Power Density 4.8W/in<sup>3</sup>
- Lifetime Expectation >5 years
- Hold-up Time >24ms at full load
- EISA, CEC Compliant
- Floating Output
- Medical Approval - EN60601-1 Class I 3rd Edition

Elpac Part Number	Output Voltage	Output Current	Peak Current <sup>1</sup>	Total Regulation <sup>2</sup>	Typical Efficiency <sup>3</sup>
MWA100012A-12A	12.0V	8.3A	10.0A	±5%	88%
MWA100015A-12A	15.0V	6.7A	8.0A	±5%	89%
MWA100018A-12A	18.0V	5.6A	6.7A	±5%	89%
MWA100024A-12A	24.0V	4.2A	5.0A	±5%	89%

#### Notes

<sup>1</sup> Maximum peak load (120W) lasting 500ms with a maximum 10% duty cycle.

<sup>2</sup> Includes initial setting, line regulation, load regulation, and thermal drift.

<sup>3</sup> Typical at 115VAC (including output cable).

## Input

Input Voltage	85 - 264VAC 100 - 240VAC Nominal
Input Frequency	47 - 63Hz
Input Current	<2.3A rms
Inrush Current	<37A at 230VAC cold start
Zero Load Power Consumption	<0.5W
Earth Leakage Current (Typical)	<150 $\mu$ A @ 132VAC @ 60H <250 $\mu$ A @ 264VAC @ 60H
Patient Leakage Current	<50 $\mu$ A @ 132VAC @ 60H <80 $\mu$ A @ 264VAC @ 60H

## Output

Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<1s
Hold-Up Time	>24ms 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; 10 $\mu$ F tantalum capacitor in parallel with a 0.1 $\mu$ F ceramic capacitor.


## General

Efficiency	Avg Efficiency 88.9% @ 115VAC; 90.6% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	5.19" (132mm) x 3.07" (78mm) x 1.34" (34mm)
Weight	1.1 lbs (0.50 kg)
Power Density	4.8W/in <sup>3</sup>

## 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 <sup>2</sup>

## 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.601.1-M90
	CB per IEC60601-1 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 (12V)

Standard Output Cable	4 ft.
Cord Size	2x16awg
Connector (PSU side)	Switchcraft DIN-8, P/N 15BL8MX (male pins)
Mating Connector	Switchcraft 62GB8FX or equivalent

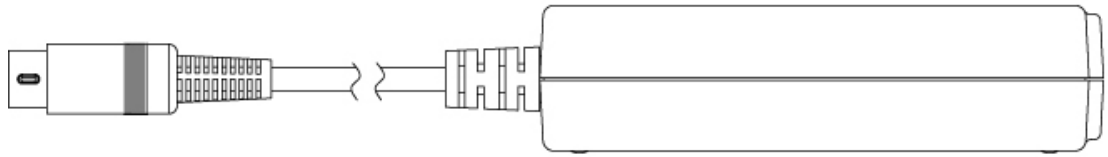
### Output Configuration (15V, 18V 24V)

Standard Output Cable	6 ft.
Cord Size	2x16awg
Connector (PSU side)	Switchcraft DIN-8, P/N 15BL8MX (male pins)
Mating Connector	Switchcraft 62GB8FX or equivalent

### Output Pin Assignments



Pin 1	+V1
Pin 2	+V1
Pin 3	Return
Pin 4	+V1
Pin 5	Return
Pin 6	+V1
Pin 7	Return
Pin 8	Return



1.34" [34.0mm]

