



**International  
Components  
Corporation**

TM

# MWC100 Series

100 Watts  
Medical Switch Mode Power Supply

## TECHNICAL SUPPORT

WORLDWIDE  
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## Elpac Power Systems™

HIGHER EFFICIENCY, HIGHER POWER DENSITY, UNCOMPROMISED RELIABILITY



**5-YEAR LIMITED WARRANTY\***

- High Efficiency: Level V
- Power Factor Correction
- Lifetime Expectation >5 years
- Hold-Up Time >48ms at full load
- EISA Compliant
- CEC Compliant
- Floating Output
- Medical Approval - EN60601-1 Class I

Input	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<1.5A rms
Inrush Current	<37A at 230VAC cold start
Power Factor	>0.97
Zero Load Power Consumption	<0.5W
Touch Current/ Leakage Current	<150µA @ 132VAC @ 60Hz
	<250µA @ 264VAC @ 60Hz
Patient Leakage Current	<50µA @ 132VAC @ 60Hz
	<80µA @ 264VAC @ 60Hz

Output	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<1s
Hold-Up Time	>48ms 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

\*visit [www.iccus.com](http://www.iccus.com) for complete details

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





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Model Number <sup>1</sup>	Output Voltage	Output Current	Peak Current <sup>2</sup>	Total Regulation <sup>3</sup>	Typical Efficiency <sup>4</sup>
MWC100012A-12A	12.0V	8.3A	10.0A	±5%	86%
MWC100015A-11A	15.0V	6.6A	8.0A	±5%	87%
MWC100018A-11A	18.0V	5.5A	6.7A	±5%	87%
MWC100024A-11A	24.0V	4.1A	5.0A	±5%	89%

#### Notes

- 1) All models ship standard with US version input cable.
- 2) Maximum peak load (120W) lasting 500ms with a maximum 10% duty cycle.
- 3) Includes initial setting, line regulation, load regulation, and thermal drift.
- 4) Typical at 115VAC (including output cable).

General	
Efficiency	Avg Efficiency 87.4% @ 115VAC; 87.9% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	7.09" (180.2mm) x 2.27" (57.5mm) x 1.52" (38.6mm)
Weight	1.52 lbs (0.69 kg)
Power Density	4.2W/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>

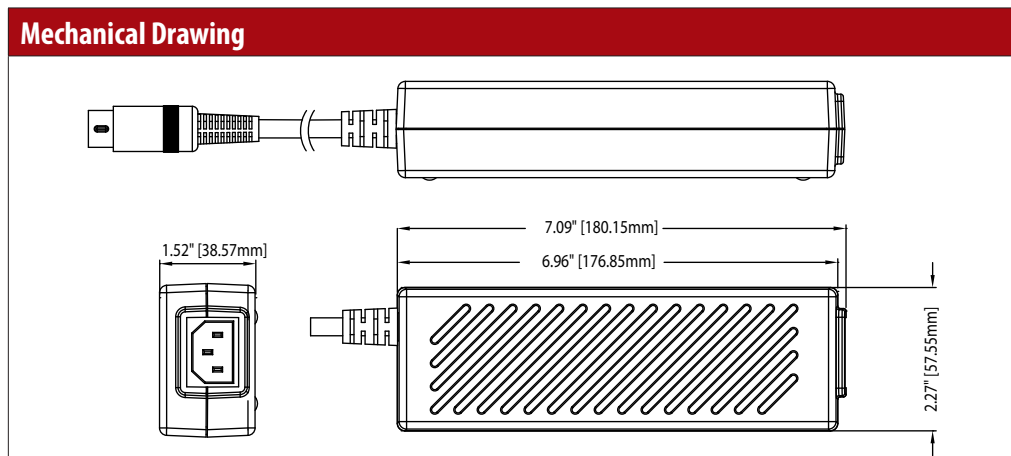
EMC & Safety	
Emissions	FCC class B, CISPR11 class B EN61000-3-2, -3
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
Certified by TUV to the following:	cTUVus, cULus
	UL 60601-1
	CAN/CSA-22.2 No.601.1-M90
	CB per IEC60601-1
CE marked to LVD	

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

Output Configuration	
Standard Output Cable	4 ft for 12V 6 ft for 15V, 18V & 24V
Connector (PSU side)	Switchcraft DIN-8, P/N 15BL8M for 12V Switchcraft DIN-5, P/N 05GM5M for 15V, 18V & 24V
Mating Connector	Switchcraft 62GB5F (5 pin) or 62GB8F (8 pin) or equivalent

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

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



Ordering Options Available	
Grounded Output	Overmolding
Ferrite Cores	Output Cord Lengths
Custom Imprinting	Special Labeling
Special Packaging	