



**International
Components
Corporation**

TM

MWC100 Series

100 Watts
Medical Switch Mode Power Supply

TECHNICAL SUPPORT

WORLDWIDE
1-888-357-2280
saleselpac@iccus.com
www.iccus.com

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+44.1383.432920
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ENERGY STAR PARTNER

As a Global Supplier of Power Supplies, we are committed to meeting energy efficiency standards around the world. That is why we have partnered with the ENERGY STAR® Program and engineer our Elpac Power Systems™ to meet strict energy-efficiency guidelines established by the EPA and the US Department of Energy (DOE). The Energy Star program has developed International partnerships with countries and organizations in major global markets. Those participating in the program include Australia, Canada, European Union, European Free Trade Association, Japan, New Zealand, and Taiwan.

Furthering our International commitment, we have signed the EU Code of Conduct on Efficiency of External Power Supplies. Our Elpac Power Systems™ MWC100 series meets the efficiency standards of the International ENERGY STAR® program and the EU Code of Conduct.

→E Elpac Power Systems™

HIGHER EFFICIENCY, HIGHER POWER DENSITY, UNCOMPROMISED RELIABILITY



5-YEAR LIMITED WARRANTY*

- High Efficiency
- Power Factor Correction
- Lifetime Expectation >5 years
- Hold-Up Time >48ms at full load
- ENERGY STAR Level V
- 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

Notes

*visit www.iccus.com for complete details

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

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)





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Model Number ¹	Output Voltage	Output Current	Peak Current ²	Total Regulation ³	Typical Efficiency ⁴
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).

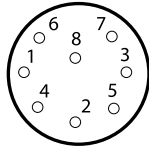
General	
Energy Star Efficiency	Avg Efficiency 87.4% @ 115VAC; 87.9% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	7.09" (180.2mm) x 2.27" (57.5mm) x 1.52" (38.6mm)
Weight	1.52 lbs (0.69 kg)
Power Density	4.2W/in ³

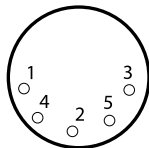
Environmental	
Operating Temperature	0 – 60°C (Full load to 40°C, derate linearly to 50% load at 60°C)
Storage Temperature	-40°C to +85°C
Relative Humidity	5-95%, non-condensing
Cooling	Natural Convection
Vibration	All units production tested to 19.6m/s ²

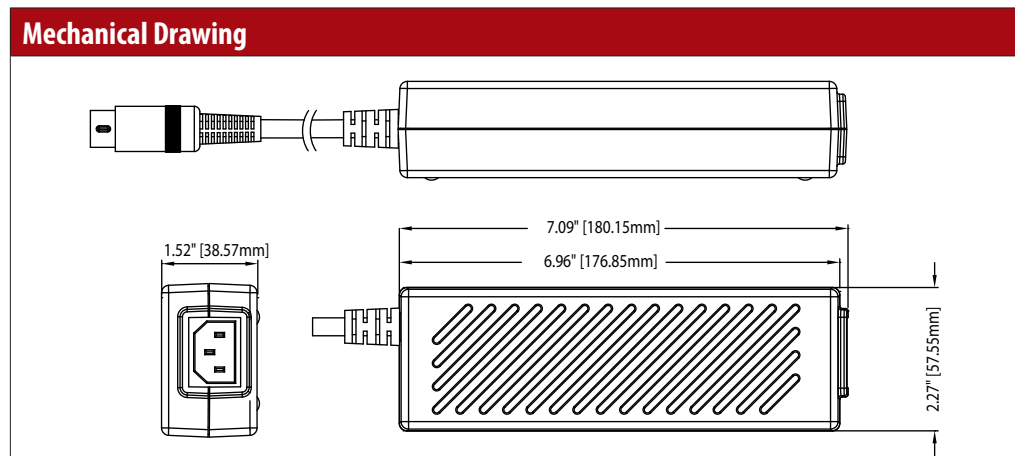
EMC & Safety	
Emissions	FCC class B, CISPR11 class B EN61000-3-2, -3
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
Certified by TUV to the following:	cTUVus, cULus
	UL 60601-1
	CAN/CSA-22.2 No.601.1-M90
	CB per IEC60601-1
 CE marked to LVD	

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	
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	
Pin 2	Return	
Pin 3	+V1	
Pin 4	Return	
Pin 5	+V1	



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