



**International
Components
Corporation**

TM

MWB100 Series

100 Watts
Medical Switch Mode Power Supply

TECHNICAL SUPPORT

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

EUROPE
+44.1383.432920
saleseurope@iccus.com

Elpac Power Systems™

HIGHER EFFICIENCY, HIGHER POWER DENSITY, UNCOMPROMISED RELIABILITY



- High Efficiency
- High Power Density 4.8W/in³
- Lifetime Expectation >5 years
- Hold-Up Time >24ms at full load
- EISA Compliant
- CEC Compliant
- Floating Output
- Medical Approval - EN60601-1 Class II

5-YEAR LIMITED WARRANTY*

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	<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	>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

*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.





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Model Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
MWB100012A-12A	12.0V	8.3A	10.0A	±5%	88%
MWB100015A-12A	15.0V	6.7A	8.0A	±5%	89%
MWB100018A-12A	18.0V	5.6A	6.7A	±5%	89%
MWB100024A-12A	24.0V	4.2A	5.0A	±5%	89%

Notes

1) Maximum peak load (120W) 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	
Energy Star 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 ³

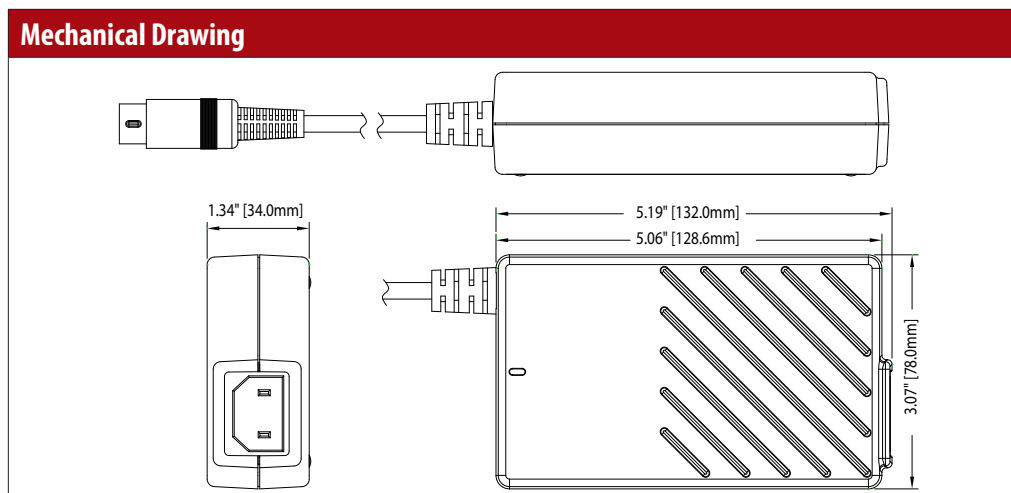
Environmental	
Operating Temperature	0 – 60°C (Full load to 40°C, derate linearly to 50% load at 60°C)
Storage Temperature	-40°C to +85°C
Relative Humidity	5-95%, non-condensing
Cooling	Natural Convection
Vibration	All units production tested to 19.6m/s ²

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
	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 C18 Receptacle

Output Configuration	
Standard Output Cable	4 ft for 12V 6 ft for 15V, 18V, and 24V
Connector (PSU side)	Switchcraft DIN-8, P/N 15BL8M (male pins)
Mating Connector	Switchcraft 62GB8F 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	



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