



TECHNICAL SUPPORT

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Elpac Power Systems™

HIGHER EFFICIENCY, HIGHER POWER DENSITY, UNCOMPROMISED RELIABILITY



- High Efficiency: Level V
- High Power Density 4.9W/in³
- Lifetime Expectation >5 years
- Hold-up Time >25ms at full load
- EISA Compliant
- CEC Compliant
- Medical Approval - EN60601-1 Class I

5-YEAR LIMITED WARRANTY*

Input	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<1.5A rms
Inrush Current	<37A at 230VAC cold start
Zero Load Power Consumption	<0.5W
Earth Leakage Current	<80µA @ 132VAC @ 60Hz
	<100µA @ 264VAC @ 60Hz
Patient Leakage Current	<40µA @ 132VAC @ 60Hz
	<50µA @ 264VAC @ 60Hz

Output	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<750ms
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

*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.





Model Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
MWA065009A-11A	9.0V	8.0A	9.6A	±5%	85%
MWA065012A-11A	12.0V	6.0A	7.2A	±5%	88%
MWA065015A-11A	15.0V	4.8A	5.7A	±5%	89%
MWA065024A-11A	24.0V	3.0A	3.6A	±5%	91%

Notes

- 1) Maximum peak load (86W) lasting 500ms with a maximum 10% duty cycle.
- 2) Includes initial setting, line regulation, load regulation, and thermal drift.
- 3) Typical at 115VAC, full load (including output cable).

General	
Efficiency	Avg. Efficiency 88.2% @ 115VAC; 89.7% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	5.02" (127.6mm) x 2.20" (55.9mm) x 1.37" (34.8mm)
Weight	1.3 lbs (0.59 kg)
Power Density	4.9W/in ³

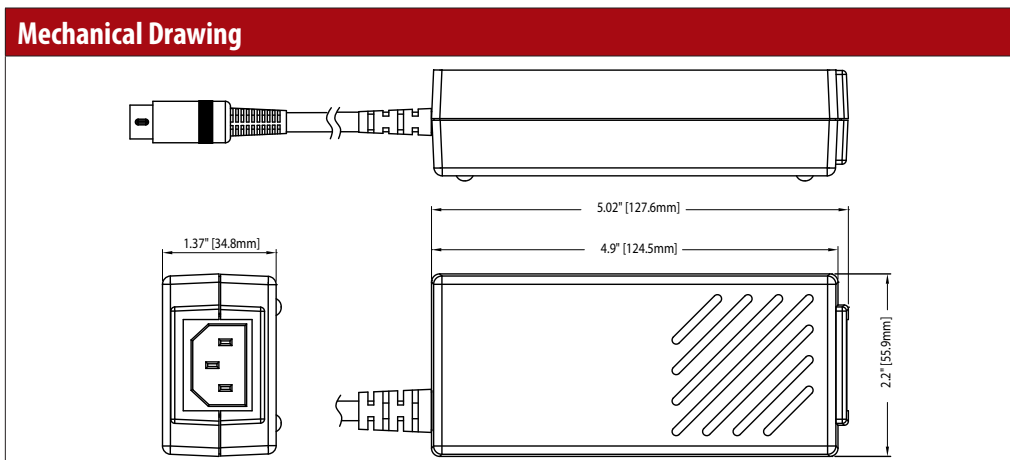
Environmental	
Operating Temperature	0 – 60°C (Full load to 40°C, derate linearly to 50% load at 60°C)
Storage Temperature	-40°C to +85°C
Relative Humidity	5-95%, non-condensing
Cooling	Natural Convection
Vibration	All units production tested to 19.6m/s ²

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 C14 Receptacle

Output Configuration	
Standard Output Cable	4 ft for 9V 6ft for 12V, 18V & 24V
Connector (PSU side)	Switchcraft DIN-5, P/N 05GM5M (male pins)
Mating Connector	Switchcraft 57GB5F or equivalent

Output Pin Assignments		
Pin 1	Return	
Pin 2	Return	
Pin 3	+V1	
Pin 4	Return	
Pin 5	+V1	



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