



MVA100 Series

100 Watt Medical Open Frame Power Supply

- High Efficiency: Level V
- Up to 120W with Forced Air
- High Power Density 8.7W/in3
- Hold-up Time >24ms at full load
- EISA & CEC Compliant
- Output Floating
- Medical Approval EN60601-1 Class I 3rd Edition
- Class II available, consult factory

Elpac Part Number	Output Voltage	Output Current ¹	Peak Current	Total Regulation ²	Typical Efficiency ³
MVA100012A	12.0V	8.3A	10.0A	±5%	90%
MVA100015A	15.0V	6.7A	8.0A	±5%	90%
MVA100018A	18.0V	5.6A	6.7A	±5%	91%
MVA100024A	24.0V	4.2A	5.0A	±5%	92%

Notes

¹ With convection cooling. Peak load (120W) lasting 500ms with a maximum 10% duty cycle.

 $^{2\ \}mbox{lncludes}$ initial setting, line regulation, load regulation, and thermal drift.

³ Typical at 115VAC and full load.

Input

Input Voltage 85 - 264VAC 100 - 240VAC Nominal

Input Frequency 47 - 63Hz

Input Current <2A rms

Inrush Current <37A at 230VAC cold start

Zero Load Power Consumption <0.5W

Patient Leakage Current <50µA @ 132VAC @ 60Hz

<80µA @ 264VAC @ 60Hz

Touch Leakage Current <125µA @ 132VAC @ 60Hz

<175µA @ 264VAC @ 60Hz

Output

Output Voltage See Table

Total Regulation +/-5%

Minimum Load No minimum load required

Start-Up Delay <750ms

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 Protetion 120 - 180%

Short Circuit Protection shutdown, auto-restart (hiccup mode)

Notes

General

Efficiency Avg Efficiency 88.6% @ 115VAC; 89.5% @ 230VAC

MTBF min. 200,000 hours demonstrated

Size 4.50" x 2.5" x 1.22" | 114mm x 63.5mm x 30.9mm

Weight 0.45 lbs (.20 kg)

Power Density 8.7W/in3 (at 120W)

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

Environmental

Operating Temperature 0 – 70°C (Full load to 50°C, derate linearly to 50% load at 70°C)

Storage Temperature -40°C to +85°C

Relative Humidity 5-95%, non-condensing

Cooling Natural Convection (100W) or Forced Air (120W)

Vibration All units production tested to 19.6m/s2

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

(1) 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

Connection on Power Supply Body AMP p/n 640445-3 (or equivalent)

Mating Connector AMP p/n 640250-3 (or equivalent)

Output Configuration

Connector (PSU Side) AMP p/n 640445-8 (or equivalent)

Mating Connector AMP p/n 640250-8 (or equivalent)

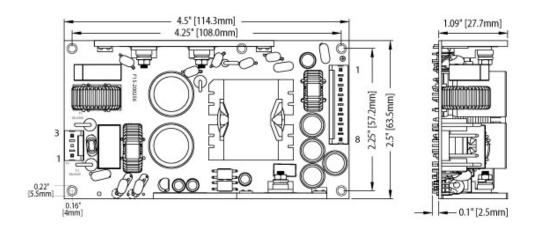
Input Pin Assignments (P1)

Pin 1 AC Line

Pin 2 <not assembled>

Pin 3 AC Neutral

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



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