



MVA100 Series

100 W 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

| Elpac Part Number | Output Voltage | Output Current | Peak Current | Total Regulation | Typical Efficiency |
|-------------------|----------------|----------------|--------------|------------------|--------------------|
| 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% |

| 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 Protection | 120 - 180% |
| Short Circuit Protection | shutdown, auto-restart (hiccup mode) |

| General | |
|----------------|---|
| Efficiency | Avg Efficiency 88.6% @ 115VAC; 89.5% @ 230VAC |
| MTBF | min. 200,000 hours demonstrated |
| Size | 4.50 |
| Weight | 0.45 lbs (.20 kg) |
| Power Density | 8.7W/in ³ (at 120W) |

| 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/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

MVA100 | ICCNEXERGY | © 2011 |