



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## MWC100 Series

### 100 Watt Medical Desktop Power Supply

- 5-Year Limited Warranty
- High Efficiency: Level V
- Power Factor Correction
- High Power Density 4.8W/in<sup>3</sup>
- Lifetime Expectation >5 years
- Hold-up Time >48ms at full load
- EISA, CEC Compliant
- Floating output
- Medical Approval - EN60601-1 Class I

| Elpac Part Number | Output Voltage | Output Current | Peak Current <sup>1</sup> | Total Regulation <sup>2</sup> | Typical Efficiency <sup>3</sup> |
|-------------------|----------------|----------------|---------------------------|-------------------------------|---------------------------------|
| 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 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).

| 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                             |
| Earth Leakage Current       | <150µA @ 132VAC @ 60Hz            |

|                         |  |
|-------------------------|--|
|                         | <250 $\mu$ A @ 264VAC @ 60Hz                               |
| Patient Leakage Current | <50 $\mu$ A @ 132VAC @ 60Hz<br><80 $\mu$ A @ 264VAC @ 60Hz |

| 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)                 |

## Notes

\* Ripple and noise measured with 20MHz bandwidth; 10 $\mu$ F tantalum capacitor in parallel with a 0.1 $\mu$ F ceramic capacitor.

| General       |   |
|---------------|---|
| 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 <sup>3</sup>                              |

| 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<br>UL 60601-1<br>CAN/CSA-22.2 No.601.1-M90 |



| <b>Environmental</b>  |   |
|-----------------------|---|
| 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 <sup>2</sup>               |

CB per IEC60601-1

CE marked to LVD

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MWC100 | ICCNEXERGY | © 2011 |