

MWA050 Class II

50 Watts Medical Desktop Power Supply



- High Efficiency
- Fully Regulated DC Output
- 5-Year Limited Warranty
- Hold-up Time > 16ms at full load
- Safety Approval-EN60601-1 Class II
- Level V, EuP Directive Compliant
- LED Indicator

| Elpac Part Number | Output Voltage | Output Current | Peak Current | Total Regulation | Typical Efficiency |
|-------------------|----------------|----------------|--------------|------------------|--------------------|
| MWA050009B-10A | 9.0V | 5.0A | 6.0A | +/-5% | 87.6% |
| MWA050012B-10A | 12.0V | 4.25A | 5.0A | +/-5% | 88.6% |
| MWA050015B-10A | 15.0V | 3.3A | 4.0A | +/-5% | 89.8% |
| MWA050018B-10A | 18.0V | 2.8A | 3.5A | +/-5% | 90.6% |
| MWA050024B-10A | 24.0V | 2.1A | 2.5A | +/-5% | 90.6% |
| MWA050048B-10A | 48.0V | 1.05A | 1.3A | +/-5% | 90.3% |

Input

| | |
|-----------------------------|-------------------------------|
| Input Voltage | 85-264VAC; 100-240VAC Nominal |
| Input Frequency | 47-63Hz |
| Input Current | <1.0A rms |
| Inrush Current | <60A @ 230VAC cold start |
| Zero Load Power Consumption | <0.3W |

Output

| | |
|-----------------------------|--|
| Output Voltage | See Model Overview Table |
| Total Regulation | +/-5% |
| Minimum Load | No minimum load required |
| Start-Up Delay | <1.5s |
| Hold-Up Time | >16ms at any input voltage |
| Ripple & Noise | <1% pk-pk** |
| Over Voltage Protection | 112-135% |
| Over Temperature Protection | Active - Recoverable; plus Passive - Non Recoverable |
| Over Current Protection | 108% - 180% |
| Short Circuit Protection | Shutdown, auto-restart (hiccup mode) |


General

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|------------|--|
| Efficiency | Avg Efficiency 897% at 115VAC; 88% @ 230VAC |
| MTBF | min. 200,000 hours demonstrated |
| Size | 3.53" x 1.92" x 1.00" 89.6mm x 48.4mm x 25.2mm |
| Weight | 9V 0.6lbs (0.27Kg); 24V 0.5 lbs (0.22Kg) |

Environmental

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|-----------------------|---|
| 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, EN6100-3-2, -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 |
| | CB per IEC6061-1 3rd Edition |
| | CE marked to LVD directive |

Input Configuration

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|---------------------------------|-----------------------|
| Standard Input Cable | Not Provided |
| Connection on Power Supply Body | IEC 320 C8 Receptacle |

Output Configuration

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|-----------------------|--|
| Standard Output Cable | 4 ft. |
| Cord Size | 12-15V: 2x16awg zip; 18-24V: 2x18awg zip |
| Connector (PSU side) | Switchcraft 760 or equivalent |
| Mating Connector | Switchcraft 712A or equivalent |

Output Pin Assignments



| | |
|---------|--------|
| Center | +v1 |
| Outside | Return |

