



# ELPAC MWA065 SERIES CLASS I

72 Watt  
Medical Desktop Power Supply

- Medical Approval - EN60601-1 Class I 3.1 Edition
- EMC safety - IEC/EN 60601-1-2 4<sup>th</sup> edition
- Low Leakage Current
- High Efficiency: Level V
- High Power Density 4.9W/in<sup>3</sup>
- Lifetime Expectation >5 years
- LED Indicator
- 5-Year Limited Warranty



| INPUT                           |                                    |
|---------------------------------|------------------------------------|
| Input Voltage                   | 85 – 264VAC (100 – 240VAC Nominal) |
| Input Frequency                 | 47 – 63Hz (50-60Hz Rated)          |
| Input Current                   | 1.6A-0.8A rms                      |
| Inrush Current                  | <60A at 230VAC cold start          |
| Power Factor                    | N/A                                |
| Zero Load Power                 | <0.15W                             |
| Earth Leakage Current (Typical) | <200µA @ 132VAC @ 60Hz             |
|                                 | <400µA @ 264VAC @ 60Hz             |
| Touch Leakage Current           | <50µA @ 132VAC @ 60Hz              |
|                                 | <100µA @ 264VAC @ 60Hz             |

| OUTPUT                      |                                                    |
|-----------------------------|----------------------------------------------------|
| Output Voltage              | See Table                                          |
| Total Regulation            | ±5%                                                |
| Minimum Load                | No minimum load required                           |
| Start-Up Delay              | <1.5s                                              |
| Hold-Up Time                | >20ms at any input voltage of full load            |
| Ripple & Noise              | <1% pk-pk **                                       |
| Over Voltage Protection     | 110 – 135%                                         |
| Over Temperature Protection | Active - Recoverable;<br>Passive - Non recoverable |
| Over Current Protection     | 120 – 180%                                         |
| Short Circuit Protection    | Shutdown, auto-restart (hiccup mode)               |

Notes

\*\*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 <sup>1</sup> | Total Regulation <sup>2</sup> | Typical Efficiency <sup>3</sup> |
|----------------|----------------|----------------|---------------------------|-------------------------------|---------------------------------|
| 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%                             |
| MWA065018A-11A | 18.0V          | 4.0A           | 4.8A                      | ±5%                           | 90%                             |
| 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 (including output cable).

4) AC cord not included-AC cord part number 67400-185-EB can be ordered separately.

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| General       |                                                                      |
|---------------|----------------------------------------------------------------------|
| Efficiency    | Avg. Efficiency 88.0% @ 115VAC*;<br>Avg. Efficiency 89.0% @ 230VAC*; |
| MTBF          | min. 200,000 hours, SR-332 issue 3                                   |
| Size          | 5.02" (127.6mm) x 2.20"<br>(55.9mm) x 1.37" (34.8mm)                 |
| Weight        | 1.3 LBS (0.59 Kg)                                                    |
| Power Density | 4.9W/in <sup>3</sup>                                                 |

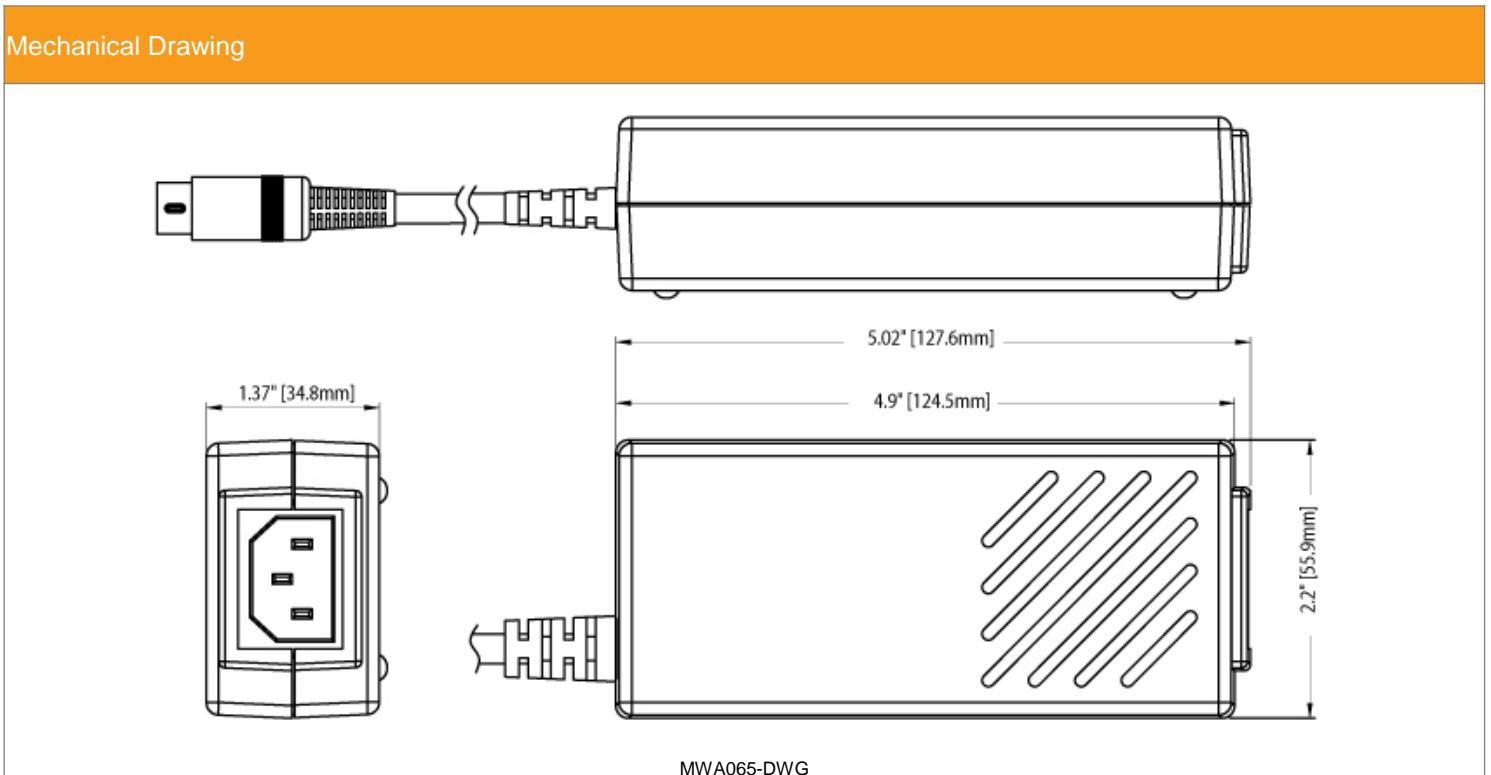
| Environmental         |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Operating Temperature | 0–60°C (Full load to 40°C, derate linearly to 50% load at 60°C) |
| Storage Temperature   | -40°C to +85°C                                                  |
| Relative Humidity     | 5-93%, non-condensing                                           |
| Cooling               | Natural Convection                                              |
| Vibration             | Unites meet MIL-STD-810G Figure 514.6C-1 category 4             |

| EMC & Safety                       |                                                                          |
|------------------------------------|--------------------------------------------------------------------------|
| Emissions                          | FCC class B, CISPR11 class B<br>IEC/EN60601-1-2(Ed.4)<br>EN61000-3-2, -3 |
| Immunity                           | EN61000-4-2, -3, -4, -5, -6, -11                                         |
| Certified by TUV to the following: | cTUVus                                                                   |
|                                    | ANSI/AAMI ES60601-1:2005+A2+A1                                           |
|                                    | CAN/CSA-C22.2 No.60601-1:14                                              |
|                                    | CB per IEC60601-1 3.1 Edition                                            |
|                                    | CE marked to LVD and CE EMC                                              |

| Input & Output Configuration    |                                            |
|---------------------------------|--------------------------------------------|
| Standard Input Cable            | Not Provided Separately (P/N 67400-185-EB) |
| Connection on Power Supply Body | IEC 320 C14 Receptacle                     |
| Standard Output Cable           | 4ft for 9V<br>6ft for 12V, 15V, 18V, 24V   |
| Output Cable Cord Size          | 2x16awg                                    |
| Output Cable Connector          | Switcraft DIN-5,<br>P/N 05GM5MX(male pins) |
| Output Cable Mating Connector   | Switcraft 57GB5FX (5 pin) or equivalent    |

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

**DIN-5**



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