



# **MWC100 Class II**

100 Watt Medical Desktop Power Supply

- 5-Year Limited Warranty
- High Efficiency: Level VI
- Power Factor Correction
- High Power Density 4.8W/in3
- Lifetime Expectation >5 years
- Hold-up Time >48ms at full load
- EISA, CEC Compliant
- Floating output
- Medical Approval EN60601-1 Class II

Elpac Part	Output	Output	Peak	Total	Typical
Number	Voltage	Current	Current <sup>1</sup>	Regulation <sup>2</sup>	Efficiency <sup>3</sup>
MWC100019B-10A	19.0V	5.26A	6.3A	±5%	90%

# 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	<0.04W

# 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 Protetion 120 - 180%

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

### Notes

### **General**

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/in3

## **Environmental**

Operating Temperature  $0-60^{\circ}$ C (Full load to  $40^{\circ}$ C, derate linearly to 50% load at  $60^{\circ}$ 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/s2

<sup>\*</sup> Ripple and noise measured with 20MHz bandwidth; 10µF tantalum capacitor in parallel with a 0.1µF ceramic capacitor.

**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, CCC, RSM

EN60601-1

CAN/CSA-22.2 No.601.1-M90

CB per IEC60601-1 3rd edition

CE marked to LVD

EMI Beads Beads are not required for Level B, but are optionally available

**Input Configuration** 

Standard Input Cable Not Provided

Connection on Power Supply Body IEC 320 C8 Receptacle

**Output Configuration** 

Standard Output Cable 6 ft.

Cord Size 2x16awg

Connector (PSU side) Switchcraft 760 or equivalent

Mating Connector Switchcraft 712A or equivalent

**Output Pin Assignments** 

Rtn +V

Center +v

Outside Return

# Output Pin Assignments DIN-5 1 3 4 2 5 6 2 5 9 2 8 1 Return 1 Pin 2 Return 1 Pin 3 +V1 1 Pin 4 Return 1 Pin 5 +V1 1

