



# MWA220 Series 220 W Medical Desktop Power Supply

- High Efficiency
- High Power Density 5.9W/in3
- Lifetime Expectation >5 years
- Hold-up Time > 25ms at full load
- Medical Approval EN60601-1 Class I
- Level V; EuP Directive Compliant
- · EISA Compliant
- CEC Compliant

Elpac Part Number	Output Voltage	Output Current	Peak Current	Total Regulation	Typical Efficiency
MWA220012A-13A	12.0V	18.3A	19.0A	±5%	89%
MWA220015A-13A	15.0A	14.6A	15.2A	±5%	89%
MWA220018A-13A	18.0V	12.2A	12.7A	±5%	90%
MWA220024A-12A	24.0V	9.2A	9.5A	±5%	90%
MWA220028A-12A	28.0V	7.8A	8.0A	±5%	90%
MWA220032A-12A	32.0V	6.8A	7.0A	±5%	91%
MWA220048A-11A	48.0V	4.6A	4.7A	±5%	91%

Input	
Input Voltage	85 - 264VAC; 100 – 240VAC Nominal
Input Frequency	47 - 63Hz
Input Current	<3A rms
Inrush Current	<37A at 230VAC cold start
Power Factor	>0.97
Zero Load Power Consumption	<0.5 Watt
Earth Leakage Current (Typical)	<200μA @ 132VAC @ 60Hz
	<300μA @ 264VAC @ 60Hz
Patient Leakage Current	<100μA @ 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 >25ms 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 105 - 110%

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

**General** 

Efficiency Avg Efficiency 90.5% @ 115VAC; 92.5% @ 230VAC

MTBF min. 200,000 hours demonstrated

Size 8.2" (208mm) x 2.9 (73mm) x1.6 (39mm)

Weight 2.1 lbs (0.95 kg)

Power Density 5.9W/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 15-95%, non-condensing

Cooling Natural Convection

Vibration All units production tested to 19.6m/s2

**EMC & Safety** 

Emissions EN55011 and FCC Part 15, Class B Conducted and Radiated

Immunity EN61000-3-2,-3; EN61000-4-2, -3, -4, -5, -6, -8, -11

Certified by TUV to the following:

CAN/CSA-22.2 No.601.1-M90

IEC60601-1, 2nd edition

#### **Input Configuration**

Standard Input Cable Not Provided

Connection on Power Supply Body IEC 320 C14 Receptacle

#### **Output Configuration (12V - 18V)**

Standard Output Cable 4 ft.

Cord Size 4x16awg

Connector (PSU side) Molex 6 pin P/N 39-01-2065

Mating Connector Molex 39-01-2061 or 26-01-3116

#### **Output Configuration (24V - 32V)**

Standard Output Cable 6 ft.

Cord Size 4x18awg

Connector (PSU side) Switchcraft DIN-8, P/N 15BL8MX (male pins)

Mating Connector Switchcraft 62GB8FX (8 pin) or equivalent

### **Output Configuration (48V)**

Standard Output Cable 6 ft.

Cord Size 2x16awg

Connector (PSU side) Switchcraft DIN-5, P/N 05GM5MX (male pins)

Mating Connector Switchcraft 57GB5FX (5 pin) or equivalent

#### **Output Pin Assignments**

#### DIN-8



+V1

Pin 1 +V1

Pin 2 +V1

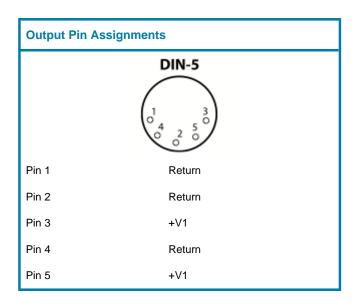
Pin 3 Return

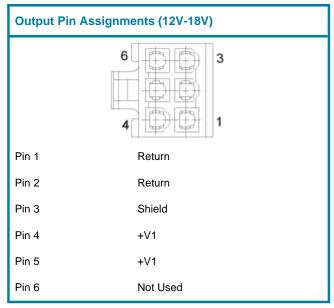
Pin 4

Pin 5 Return

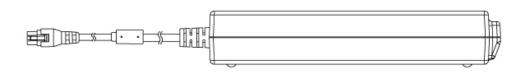
Pin 6 +V1

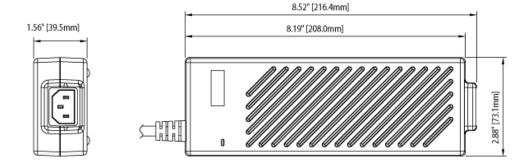
Pin 7	Return
Pin 8	Return



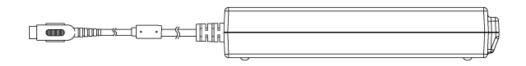


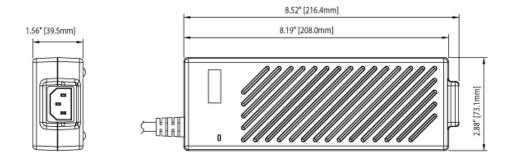
#### 12V Model





#### 24V-48V Models





## **Inventory Results For MWA220**

Part Number	Distributor	Quantity	Inv. Date	
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	MWA220	MWA220   ICCNEXERGY   © 2011		