



MWA030 Class I

30W 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 I 3rd Edition
- Level V, EuP Directive Compliant
- LED Indicator

Elpac Part Number	Output Voltage	Output Current	Peak Current	Total Regulation	Typical Efficiency
MWA030005A-10A	5.0V	6.0A	7.2A	+/-5%	84%
MWA030009A-10A	9.0V	3.3A	4.0A	+/-5%	85%
MWA030012A-10A	12.0V	2.5A	3.0A	+/-5%	84.7%
MWA030015A-10A	15.0V	2.0A	2.4A	+/-5%	87%
MWA030018A-10A	18.0V	1.7A	2.0A	+/-5%	86.5%
MWA030024A-10A	24.0V	1.25A	1.5A	+/-5%	88.5%

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
Earth Leakage Current (Typical)	<100µA @ 132VAC @ 60Hz (typical) <150µA @ 264VAC @ 60Hz (typical)

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

Efficiency	Avg Efficiency 87% at 115VAC; 86.3% @ 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	5V 0.4lbs (0.2Kg); 24V 0.3 lbs (0.16Kg)
Power Density	4.47 W/in ³

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	5-95%, non-condensing
Cooling	Natural Convection
Vibration	All units production tested to 19.6m/s ²

EMC & Safety

Emissions FCC class B, CISPR11 class B EN61000-3-2, -3

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

Certified by TUV to the following:



cTUVus

UL 60601-1 3rd edition

CAN/CSA-22.2 No.601

CB per IEC60601-1

CE marked to LVD Directive

Input Configuration

Standard Input Cable Not Provided

Connection on Power Supply Body IEC 320 C6 Receptacle

Output Configuration

Standard Output Cable 4 ft.

Cord Size 2x16awg

Connector (PSU side) Switchcraft 760 or equivalent

Mating Connector Switchcraft 712A or equivalent

Output Pin Assignments



Center +v1

Outside Return

