



MW40 Series

40 Watt Medical Desktop Power Supply

- High Efficiency: Level V
- Fully Regulated DC Output
- Lifetime Expectation >5 years
- Hold-up Time >16ms at full load
- Medical Approval - EN60601-1 Class I

Elpac Part Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
MW4009-760F-NC-BK	9.0V	4.4A	5.3A	±5%	84%
MW4012-760F-NC-BK	12.0V	3.3A	4.0A	±5%	86%
MW4015-760F-NC-BK	15.0v	2.6A	3.2A	±5%	87%
MW4018-760F-NC-BK	18.0V	2.2A	2.6A	±5%	87%
MW4024-760F-NC-BK	24.0V	1.7A	2.0A	±5%	88%

Notes

1 Maximum peak load (48W) lasting 500ms with a maximum 10% duty cycle.

2 Includes initial setting, line regulation, load, regulation, and thermal drift.

3 Typical at 115VAC

Input

Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	47 – 63Hz
Input Current	<1A rms
Inrush Current	<37A at 230VAC cold start
Zero Load Power Consumption	0.3W
Touch Leakage Current	<50µA @ 132VAC @ 60Hz <75µA @ 264VAC @ 60Hz

Output

Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<.25s
Hold-Up Time	>16ms
Ripple & Noise	<1% pk-pk ** *
Over Voltage Protection	110-135%
Over Temperature Protection	Active - Recoverable; plus 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.


General

Efficiency	Avg Efficiency 86.4% @ 115VAC; 85.7% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	5.0 (127.0mm) x 3.0 (76.2 mm) x 1.3 (33.0mm)
Weight	0.8 lbs (.36 kg)

Environmental

Operating Temperature	0 - 40C, linearly derated to 50% load at 60C
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
	CAN/CSA-22.2 No.601.1-M90
	CB per IEC60601-1
	CE marked to LVD

Input Configuration

Standard Input Cable	Not Provided
Connection on Power Supply Body	IEC 320 C14 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



Center	+v1
Outside	Return

