



## MTB080 Series

### 65 - 100 W Medical Open Frame Power Supply

- High Efficiency: Level V
- High Power Density 12.5W/in<sup>3</sup>
- Output Floating
- Lifetime Expectation >5 years
- Hold-up Time 28ms at full load
- Medical Approval - EN60601-1 Class I

Elpac Part Number	Output Voltage	Output Current	Peak Current	Total Regulation	Typical Efficiency
MTB080009A	9.0V	7.2A (65W)	10.0A (90W)	±5%	88%
MTB080012A	12.0V	6.7A (80W)	8.3A (100W)	±5%	90%
MTB080015A	15.0V	5.4A (80W)	6.7A (100W)	±5%	90%
MTB080024A	24.0V	3.4A (80W)	4.2A (100W)	±5%	91%

Input	
Input Voltage	85 - 264VAC 100 - 240VAC Nominal
Input Frequency	47 - 63Hz
Input Current	<2A rms
Inrush Current	<37A at 230VAC cold start
Zero Load Power Consumption	<0.3W
Earth Leakage Current	<75µA @ 132VAC @ 60Hz <120µA @ 264VAC @ 60Hz
Patient Leakage Current	<40µA @ 132VAC @ 60Hz <60µA @ 264VAC @ 60Hz

Output	
Output Voltage	See Table

Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<0.2s
Hold-Up Time	>28ms at full load
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	120-150%
Over Temperature Protection	Active - Recoverable; plus Passive - Non Recoverable
Over Current Protection	110 - 190%
Short Circuit Protection	shutdown, auto-restart (hiccup mode)

### General

Efficiency	Avg Efficiency 89.6% @ 115VAC; 90.3% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	4.00
Weight	0.37 lbs (.166 kg)
Power Density	12.5W/in <sup>3</sup>

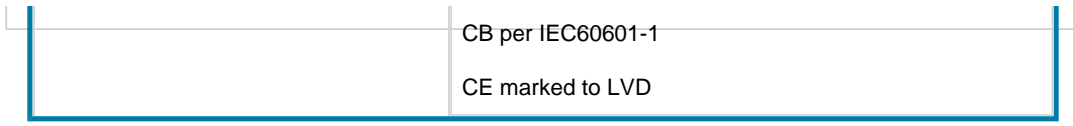
### Environmental

Operating Temperature	0 – 50°C (Full load to 50°C, derate linearly to 50% load at 70°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 <sup>2</sup>

### 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





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