



**International
Components
Corporation**

TM

MTB080 Series

65 - 100 Watts
Medical Switch Mode Power Supply

TECHNICAL SUPPORT

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www.iccus.com

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+44.1383.432920
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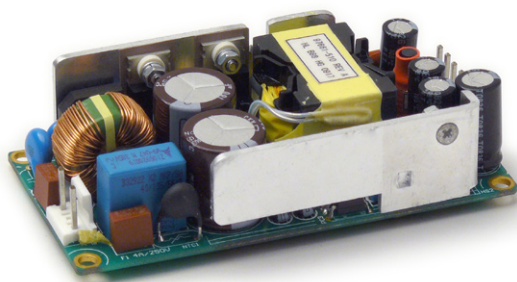
ENERGY STAR PARTNER

As a Global Supplier of Power Supplies, we are committed to meeting energy efficiency standards around the world. That is why we have partnered with the ENERGY STAR® Program and engineer our Elpac Power Systems™ to meet strict energy-efficiency guidelines established by the EPA and the US Department of Energy (DOE). The Energy Star program has developed International partnerships with countries and organizations in major global markets. Those participating in the program include Australia, Canada, European Union, European Free Trade Association, Japan, New Zealand, and Taiwan.

Furthering our International commitment, we have signed the EU Code of Conduct on Efficiency of External Power Supplies. Our Elpac Power Systems™ MTB080 series meets the efficiency standards of the International ENERGY STAR® program and the EU Code of Conduct.

→E Elpac Power Systems™

HIGHER EFFICIENCY, HIGHER POWER DENSITY, UNCOMPROMISED RELIABILITY



5-YEAR LIMITED WARRANTY*

- High Efficiency
- High Power Density 12.5W/in³
- Output Floating
- Lifetime expectation >5 years
- Hold-up Time 28ms at full load
- ENERGY STAR Level V
- Medical Approval - EN60601-1 Class I

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)

Notes

*visit www.iccus.com for complete details

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





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Model Number	Output Voltage	Output Current ¹	Peak Current ²	Total Regulation ³	Minimum Efficiency ⁴
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%


Notes

1) Maximum load current with natural convection cooling

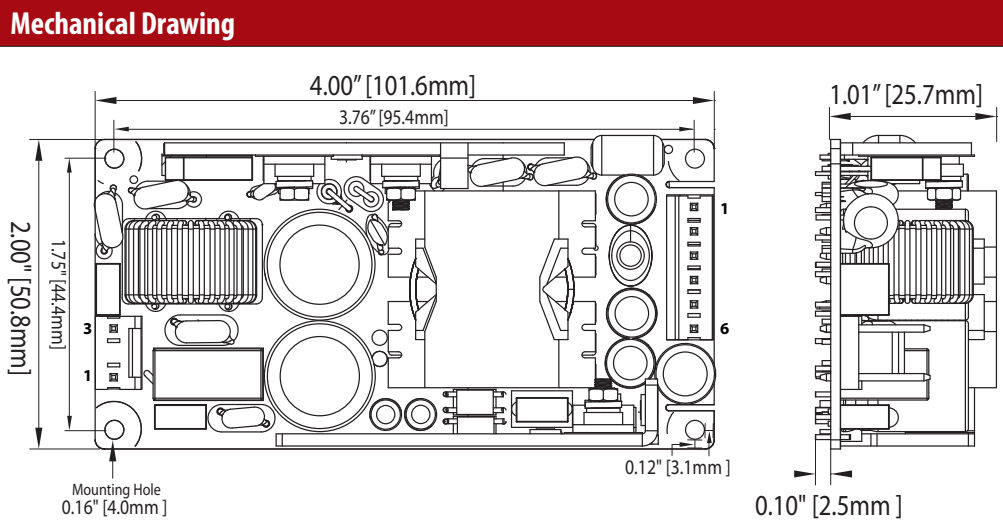
2) Maximum peak load lasting up to 4 seconds with natural convection cooling, or maximum continuous output current with minimum 5 CFM airflow.

3) Includes initial setting, line regulation, load, regulation, and thermal drift.

4) Typical at 115VAC and full load (65W)

General		Environmental		EMC & Safety	
Efficiency:	Avg. Efficiency 89.6% @115VAC, 90.3% at 230VAC	Operating Temperature	0 – 50°C @ full load, linearly derated to 50% load at 70°C	Emissions	FCC class B, CISPR22 class B, EN61000-3-2,-3
Energy Star Requirements:	Avg. Efficiency >87%, <0.3W Energy Consumption at No Load	Storage Temperature	-40°C to +85°	Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
MTBF	min. 200,000 hours demonstrated	Relative Humidity	5-95%, non-condensing	Certified by TUV to the following: 	cTUVus
Size	4.00" (101.6mm) x 2.00" (50.8mm) x 1.01" (25.7mm)	Cooling	Natural Convection		UL 60601-1
Weight	0.37 lbs (.166 Kg)	Vibration	All units production tested to 19.6m/s ²		CAN/CSA-22.2 No.601.1-M90
Power Density:	12.5W/in ³				CB per IEC60601-1
					CE marked to LVD

Input Configuration		Output Configuration		Output Pin Assignments (P2)	
PSU side	AMP 640445-3 or equivalent	PSU side	AMP 640445-6 or equivalent	Pin 1	+Vout
Cable side	AMP 640250-3 or equivalent	Cable side	AMP 640250-6 or equivalent	Pin 2	+Vout
				Pin 3	Return
				Pin 4	Return
				Pin 5	N/C
				Pin 6	N/C



Input Pin Assignments (P1)	
Pin 1	AC Line
Pin 2	<not assembled>
Pin 3	AC Neutral

Ordering Options Available (Contact Factory)	
Grounded Output	