



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



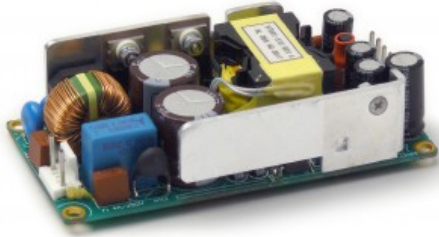
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MTB080 Series

65 - 100 W Medical Open Frame Power Supply

- High Efficiency: Level V
- High Power Density 12.5W/in³
- 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 ¹	Peak Current ²	Total Regulation ³	Typical Efficiency ⁴
MTB080009A	9.0V	7.2A	10.0A	±5%	88%
MTB080012A	12.0V	6.7A	8.3A	±5%	90%
MTB080015A	15.0V	5.4A	6.7A	±5%	90%
MTB080024A	24.0V	3.4A	4.2A	±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)

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 (Typical)	<75 μ A @ 132VAC @ 60Hz <120 μ A @ 264VAC @ 60Hz
Patient Leakage Current	<40 μ A @ 132VAC @ 60Hz <60 μ A @ 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

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


General

Efficiency	Avg Efficiency 89.6% @ 115VAC; 90.3% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	4.00" x 2.00" x 1.01" 101.6mm x 50.8mm x 25.7mm
Weight	0.37 lbs (.166 kg)
Power Density	12.5W/in ³

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 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

Connection on Power Supply Body	AMP p/n 640445-3 (or equivalent)
Mating Connector	AMP p/n 640250-3 (or equivalent)

Output Configuration

Connector (PSU Side)	AMP p/n 640445-6 (or equivalent)
Mating Connector	AMP p/n 640250-6 (or equivalent)

Input Pin Assignments (P1)

Pin 1	AC Line
Pin 2	<not assembled>
Pin 3	AC Neutral

Output Pin Assignments (P2)

Pin 1	+Vout
Pin 2	+Vout
Pin 3	Return
Pin 4	Return
Pin 5	N/C
Pin 6	N/C

