



ELPAC MTA040 SERIES

40 Watt Medical Open Frame Power Supply

- Safety Approval EN60601-1 Class I
- · Hold-up Time >14ms at full load
- Floating Output
- · EISA, CEC Compliant
- 5-Year Limited Warranty
- Lifetime Expectation >5 years





Model Number	Output Voltage	Output Current	Peak Current ¹	Total Regulation ²	Typical Efficiency ³
MTA040009A	9.0V	4.4A	5.3A	±5%	85%
MTA040012A	12.0V	3.3A	4.0A	±5%	87%
MTA040015A	15.0V	2.7A	3.2A	±5%	88%
MTA040024A	24.0V	1.7A	2.0A	±5%	87%

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	<1.0A rms
Inrush Current	<37A at 230VAC cold start
Zero Load Power Consumption	<0.3W
Earth Leakage Current	<60μA @ 132VAC @ 60Hz
(Typical)	<80μA @ 264VAC @ 60Hz
Tough Lookage Current	<30μA @ 132VAC @ 60Hz
Touch Leakage Current	<55μA @ 264VAC @ 60Hz

ОИТРИТ	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<250ms
Hold-Up Time	>14ms
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	112 – 135%
Over Temperature Protection	First Stage - Recoverable; plus 2nd stage - Non Recoverable
Over Current Protection	108 – 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.

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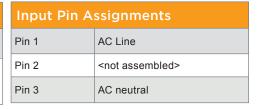
General		
Efficiency	Avg. Efficiency 87.1% @ 115VAC; 87.1% @ 230VAC	
MTBF	min. 200,000 hours demonstrated	
Size	4.00" (101.6mm) x 2.00" (50.81mm) x 0.99" (25.2mm)	
Weight	.029 lbs (0.13 Kg)	
Power Density	5.6=76W/in ³	

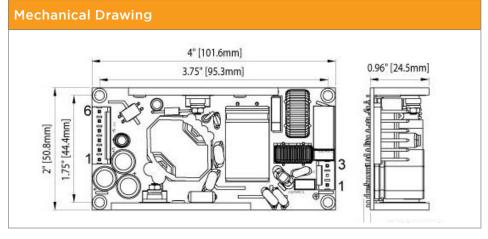
Environmental		
Operating Temperature	0 – 70°C (Full load to 50°C, derate linearly to 50% load at 70°C)	
Storage Temperature	-40°C to +85°C	
Relative Humidity	5-95%, non-condensing	
Cooling	Natural Convection	
Vibration	All units production tested to 19.6m/s ²	

EMC & Safety		
Emissions	FCC class B, CISPR11 class B EN61000-3-2, -3	
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11	
	cTUVus	
	UL 60601-1	
Certified by	CAN/CSA-22.2 No.601.1-M90	
TUV to the following:	CB per IEC60601-1	
3.	CE marked to LVD	

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

Output Configuration		
Connector	AMP p/n 640445-6	
(PSU side)	(or equivalent)	
Mating	AMP p/n 640250-6	
Connector	(or equivalent)	





Output Pin Assignments		
Pin 1	+V1	
Pin 2	+V1	
Pin 3	Return	
Pin 4	Return	
Pin 5	No Connection	
Pin 6	No Connection	