



MSM07 Series

7 W Medical Open Frame Power Supply

- Wide Range AC Input
- Fully Regulated DC Output
- Lifetime Expectation >5 years
- Hold-up Time >22ms at full load
- Output Floating
- Safety Approval - EN60601-1 Class II

Elpac Part Number	Output Voltage	Output Current	Peak Current	Total Regulation	Typical Efficiency
MSM0705	5.1V	1.4A	2.0A	±5%	74%
MSM0712	12.0V	0.6A	0.83A	±5%	74%
MSM0715	15.0V	0.5A	0.66A	±5%	76%
MSM0724	24.0V	0.3A	0.42A	±5%	75%
MSM0728	28.0V	0.3A	0.36A	±5%	75%

Input	
Input Voltage	85 - 264VAC 100 - 240VAC Nominal
Input Frequency	50 - 60Hz
Input Current	<0.3A rms
Inrush Current	<37A at 230VAC cold start
Zero Load Power Consumption	<0.7W
Earth Leakage Current	<32µA @ 132VAC @ 60Hz <55µA @ 264VAC @ 60Hz

Output	
Output Voltage	See Table
Total Regulation	+/-5%

Minimum Load	No minimum load required
Start-Up Delay	<750 ms
Hold-Up Time	>22ms
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	110-135%
Over Current Protection	200 - 350%
Short Circuit Protection	shutdown, auto-restart (hiccup mode)


General

Efficiency	Avg Efficiency 74.8% @ 115VAC; 75.9% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	2.00" (50.80mm) x 2.28" (57.91mm) x 0.71" (18.11mm)
Weight	0.10 lbs (0.05 kg)
Power Density	2.2W/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 Part 15, Class B, CISPR11, EN61000-3-2, -3
Immunity	EN61000-4-2, -3, -4, -5, -6, -8, -11
Certified by UL to the following:	cRUus
	UL 60601-1
	CAN/CSA-22.2 No.601.1-M90
	CB per IEC60601-1
	CE marked to LVD



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