



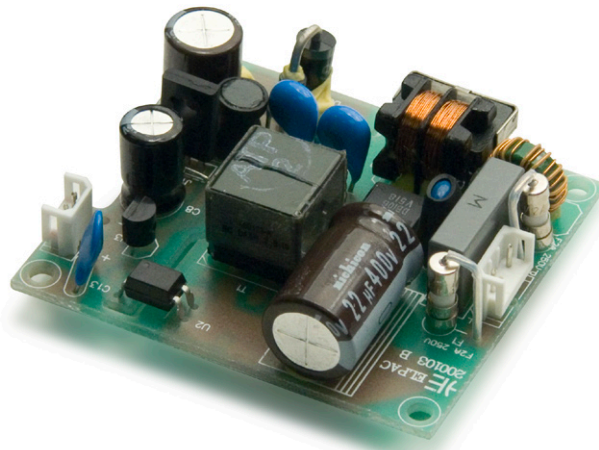
### TECHNICAL SUPPORT

WORLDWIDE  
1-888-357-2280  
saleselpac@iccus.com  
www.iccus.com

EUROPE  
+44.1383.432920  
saleseurope@iccus.com

## Elpac Power Systems™

HIGHER EFFICIENCY, HIGHER POWER DENSITY, UNCOMPROMISED RELIABILITY



- 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

**5-YEAR LIMITED WARRANTY\***

Input	
Input Voltage	85 – 264VAC 100 – 240VAC Nominal
Input Frequency	50 – 60Hz
Input Current	<0.3A rms
Inrush Current	<37A @ 230 VAC 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)

#### Notes

\*visit [www.iccus.com](http://www.iccus.com) for complete details

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





Model Number	Output Voltage	Output Current	Peak Current <sup>1</sup>	Total Regulation <sup>2</sup>	Typical Efficiency <sup>3</sup>
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%

Notes  
 1) Maximum peak load (10W) lasting 500ms with a maximum 10% duty cycle.  
 2) Includes initial setting, line regulation, load regulation, and thermal drift.  
 3) Typical at 115VAC and full load.

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	2.2 W/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°
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 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

Input Configuration	
Connector	Molex p/n 22-43-8030
Mating Connector	Molex p/n 50-37-5033 or Equivalent
Mating Connector Contacts	Molex p/n 08-70-1040 or Equivalent

Output Configuration	
Connector	Molex p/n 22-43-8020
Mating Connector	Molex p/n 50-37-5023 or Equivalent
Mating Connector Contacts	Molex p/n 08-70-1040 or Equivalent

Output Pin Assignments (P2)	
Pin 1	+V1
Pin 2	Com

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

