



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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MS40 Series

40 W Medical Open Frame Power Supply

- High Efficiency
- Wide Range AC Input
- Fully Regulated DC Output
- Lifetime Expectation >5 years
- Hold-up Time >16ms at full load
- Output Floating
- Safety Approval - EN60601-1 Class I
- RoHs Compliant

Elpac Part Number	Output Voltage	Output Current	Total Regulation	Typical Efficiency
MS4009F	9.0V	4.40A	±5%	84%
MS4012F	12.0V	3.30A	±5%	86%
MS4015F	15.0V	2.70A	±5%	87%
MS4018F	18.0V	2.20A	±5%	86%
MS4024F	24.0V	1.67A	±5%	88%

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	<0.5W
Earth Leakage Current	<50µA @ 132VAC @ 60Hz <75µA @ 264VAC @ 60Hz

Output

Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<150ms
Hold-Up Time	>16ms
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	130-135%
Over Temperature Protection	Active - Recoverable; plus Passive - Non Recoverable
Over Current Protection	120 - 180%
Short Circuit Protection	shutdown, auto-restart (hiccup mode)

General

Efficiency	Avg Efficiency 87.3% @ 115VAC; 86.9% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	3.0
Weight	0.40 lbs (0.18 kg)
Power Density	2.9W/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	?
Immunity	EN60601-1-2??
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

MS40 | ICCNEXERGY | © 2011 |