



## MS65 Series

### 65 W Medical Open Frame Power Supply

- High Efficiency
- Wide Range AC Input
- Fully Regulated DC Output
- Lifetime Expectation >5 years
- Hold-up Time >12ms at full load
- Output Floating
- RoHs Compliant
- Safety Approval - EN60601-1 Class I

Elpac Part Number	Output Voltage	Output Current	Total Regulation	Typical Efficiency
MS6509F	9.0V	6.3A	±5%	83%
MS6515F	15.0V	5.4A	±5%	85%
MS6518F	18.0V	4.3A	±5%	86%
MS6524F	24.0V	2.7A	±5%	87%

Input	
Input Voltage	85 - 264VAC 100 - 240VAC Nominal
Input Frequency	50 - 60Hz
Input Current	<2.0A rms
Inrush Current	?
Zero Load Power Consumption	?
Earth Leakage Current	<55µA @ 132VAC @ 60Hz <80µA @ 264VAC @ 60Hz

Output	
Output Voltage	See Table

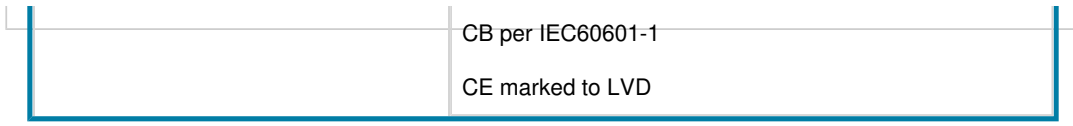
Total Regulation	+/-5% (each output)
Minimum Load	?
Start-Up Delay	?
Hold-Up Time	12ms at full load, 115VAC
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	???
Over Temperature Protection	?
Over Current Protection	?
Short Circuit Protection	Pulsing Mode Auto Recovery

General	
Efficiency	Avg Efficiency ?? @ 115VAC; ?? @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	5.0
Weight	0.45 lbs (.20 kg)
Power Density	??

Environmental	
Operating Temperature	0 – 50°C (Full load to 50°C, derate linearly to 50% load at 70°C)??
Storage Temperature	-55°C to +85°C
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 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





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