



## MSMP115 Series

### 115 W Medical Open Frame Power Supply

- Wide Range AC Input
- Power Factor Correction
- External Fan Power
- Fully regulated DC output
- Output Floating
- High Efficiency
- Medical Approval - EN60601-1 Class I
- EISA Compliant
- RoHs Compliant

Elpac Part Number	Output Voltage	Output Current	Peak Current	Typical Efficiency
MSMP11512F	12.0V	6.7A	9.6A	85.5%
MSMP11515F	15.0V	5.3A	7.7A	86%
MSMP11524F	24.0V	3.3A	4.8A	87.6%
MSMP11528F	28.0V	2.9A	4.2A	86%

Input	
Input Voltage	85 - 264VAC 100 - 240VAC Nominal
Input Frequency	47 - 63Hz
Input Current	<2A @ 100VAC
Inrush Current	<37A at 230VAC cold start
Power Factor	>0.99
Zero Load Power Consumption	<8W @115VAC
Touch Leakage Current	<250µA @ 132VAC @ 60Hz <300µA @ 264VAC @ 60Hz

Output
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Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<300ms
Hold-Up Time	>24ms at full load, 115VAC
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	110-135%
Over Temperature Protection	Active - Recoverable; plus Passive - Non Recoverable
Over Current Protection	120 - 180%
Short Circuit Protection	Pulsing Mode Auto Recovery

### General

Efficiency	Avg Efficiency 86% @ 115VAC; 87% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	5.25
Weight	1.1 lbs (0.47 kg)
Power Density	4.4W/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°C
Relative Humidity	5-95%, non-condensing
Cooling	Natural Convection (80W) or Forced Air (115W)
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	EN61000-3-2 Class D EN61000-3-3
Certified by UL to the following:	UR/cUR



UL 60601-1
CAN/CSA-22.2 No.601.1-M90
CB per IEC60601-1
CE marked to LVD

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