

MVA100 Series 100 W Medical Open Frame Power

Supply

- High Efficiency: Level V
- Up to 120W with Forced Air
- High Power Density 8.7W/in3
- Hold-up Time >24ms at full load
- EISA & CEC Compliant
- Output Floating
- Medical Approval EN60601-1 Class I

Elpac Part Number	Output Voltage	Output Current	Peak Current	Total Regulation	Typical Efficiency
MVA100012A	12.0V	8.3A	10.0A	±5%	90%
MVA100015A	15.0V	6.7A	8.0A	±5%	90%
MVA100018A	18.0V	5.6A	6.7A	±5%	91%
MVA100024A	24.0V	4.2A	5.0A	±5%	92%

Input		
Input Voltage	85 - 264VAC 100 - 240VAC Nominal	
Input Frequency	47 - 63Hz	
Input Current	<2A rms	
Inrush Current	<37A at 230VAC cold start	
Zero Load Power Consumption	<0.5W	
Patient Leakage Current	<50μA @ 132VAC @ 60Hz	
	<80μA @ 264VAC @ 60Hz	
Touch Leakage Current	<125μA @ 132VAC @ 60Hz	
	<175μA @ 264VAC @ 60Hz	

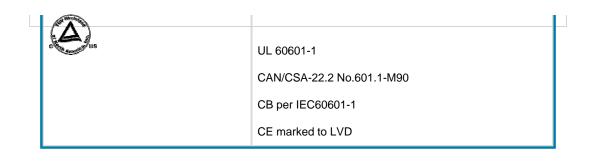
Output

Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<750ms
Hold-Up Time	>24ms at any input voltage
Ripple & Noise	<1% pk-pk **
Over Voltage Protection	110-135%
Over Temperature Protection	Active - Recoverable; plus Passive - Non Recoverable
Over Current Protetion	120 - 180%
Short Circuit Protection	shutdown, auto-restart (hiccup mode)

General		
Efficiency	Avg Efficiency 88.6% @ 115VAC; 89.5% @ 230VAC	
MTBF	min. 200,000 hours demonstrated	
Size	4.50	
Weight	0.45 lbs (.20 kg)	
Power Density	8.7W/in3 (at 120W)	

Environmental		
Operating Temperature	0 – 70°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 (100W) or Forced Air (120W)	
Vibration	All units production tested to 19.6m/s2	

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	



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