



### TECHNICAL SUPPORT

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## Elpac Power Systems™

HIGHER EFFICIENCY, HIGHER POWER DENSITY, UNCOMPROMISED RELIABILITY



**5-YEAR LIMITED WARRANTY\***

- 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

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

Output	
Output Voltage	See Table
Total Regulation	+/-5%
Minimum Load	No minimum load required
Start-Up Delay	<300ms
Hold-Up Time	>25ms 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

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 <sup>1</sup>	Forced Air Current <sup>2</sup>	Adjustable Fan Output Current <sup>3</sup>	Typical Efficiency <sup>4</sup>
MSMP11512F	12.0V	6.7A	9.6A	100 mA	85.5%
MSMP11515F	15.0V	5.3A	7.7A	100 mA	86%
MSMP11524F	24.0V	3.3A	4.8A	100 mA	87.6%
MSMP11528F	28.0V	2.9A	4.2A	100 mA	86%

Notes

- 1) With convection cooling. Peak load (115W) lasting up to 500ms with a maximum 10% duty cycle.
- 2) Sustained output current with minimum 150 LFM.
- 3) Voltage tolerance of 12V-14.81V
- 4) Typical at 115VAC.

General	
Efficiency	Avg Efficiency 86% @ 115VAC; 87% @ 230VAC
MTBF	min. 200,000 hours demonstrated
Size	5.25" (133.35mm) x 3.30" (83.82mm) x 1.5" (38.10mm)
Weight	1.1 lbs (0.47kg)
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°
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 EN60601-1-2
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





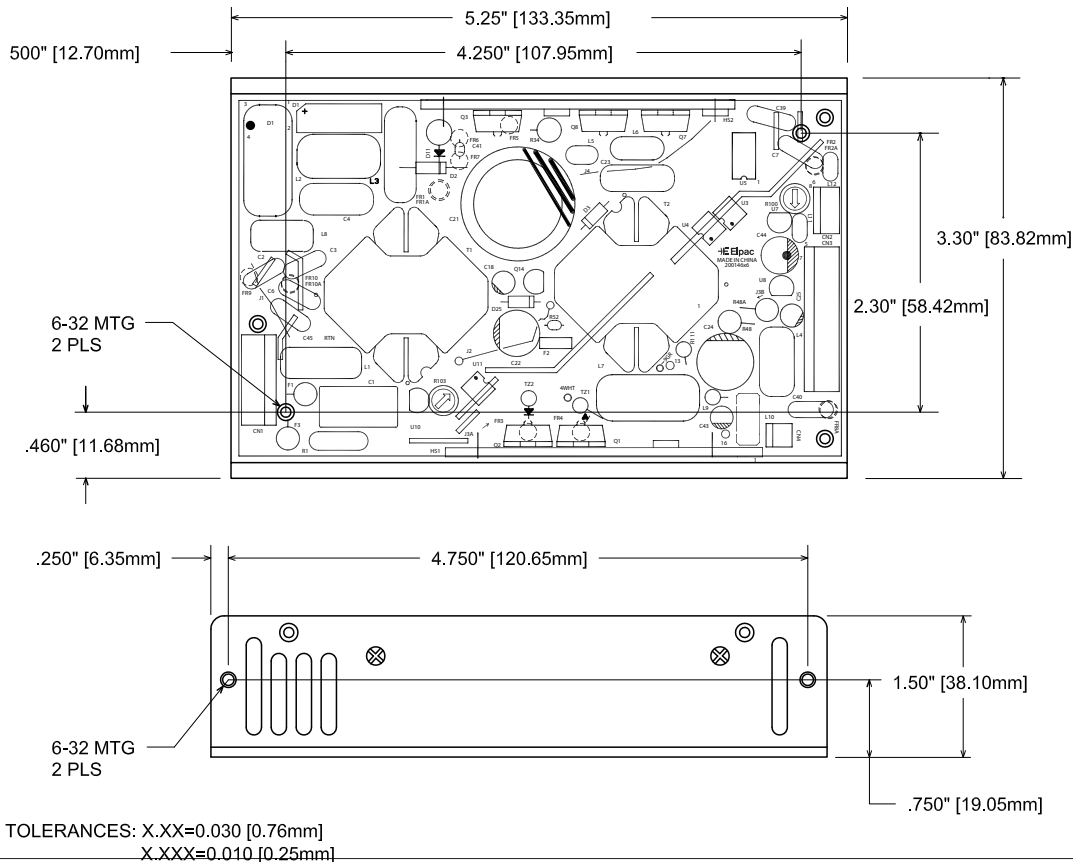
Input Configuration (P1)	
Connector (CN1)	AMP P/N 640445-5
Mating Connector	AMP P/N 640250-5
Pin 1	AC Line
Pin 2	<not assembled>
Pin 3	AC Neutral
Pin 4	<not assembled>
Pin 5	Gnd

Signal Configuration (P2)	
Connector (CN2)	AMP P/N 640456-4
Mating Connector	AMP P/N 640621-4
Mating Contacts	AMP P/N 770476
Pin 1	Power Fail
Pin 2	- Sense
Pin 3	+ Sense
Pin 4	Com

Output Configuration (P3)	
Connector (CN3)	AMP P/N 640445-8
Mating Connector	AMP P/N 640250-8
Pin 1	+V
Pin 2	+V
Pin 3	+V
Pin 4	+V
Pin 5	Return
Pin 6	Return
Pin 7	Return
Pin 8	Return

Fan Configuration (CN4)	
Connector (CN4)	AMP P/N 640456-2 or equivalent
Mating Connector	AMP p/n 640621-2 or equivalent
Pin 1	+V
Pin 2	-V

**Mechanical Drawing**



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