

# MINT1110A

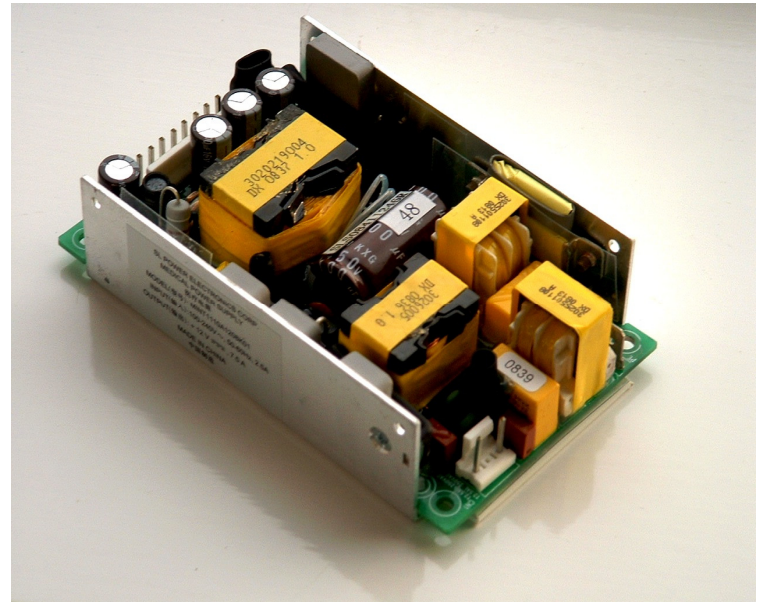
110W Single Output Series

Medical – Universal Input Power Supply



2 Year Warranty

- 110W Convection Cooled AC-DC Power Supply
- Universal Input 90-264 VAC
- Less than 1.27" Height
- Rugged EMC Compliant Design
- 3" x 5" Package
- Approved to EN/IEC/UL60601-1 for Medical
- **CE** Compliant (LVD, RoHS)



International Safety Standard Approvals



## Specifications

All Specifications are typical at nominal input, full load at 25°C unless otherwise stated.

<b>AC Input</b> 100-240VAC +/- 10%, 47-63 Hz single phase.	<b>Turn On Time</b> Less than 2 seconds under all rated load conditions.
<b>Input Current</b> 115VAC: 1.4A.	<b>Hold-up Time</b> 16 ms at 110W, nominal input (120VAC).
<b>Inrush Current</b> The inrush at 264VAC, at a cold start, will not exceed 40A.	<b>Overvoltage Protection</b> See chart for levels, latching type
<b>Input Fuses</b> F1, F2: 2.5A, 250VAC fuses provided on all models.	<b>Overload Protection</b> Hiccup Mode
<b>Power Factor</b> Complies with EN61000-3-2.	<b>Short Circuit Protection</b> Hiccup Mode
<b>Efficiency</b> 87% typical.	<b>Overtemperature Protection</b> Provided on all models.
<b>Output Power</b> 90 - 110W continuous.	<b>Medical Safety Standards</b> EN/IEC/UL 60601-1, CSA22.2, No. 601.1
<b>Ripple and Noise</b> 1% pk-pk max., 20MHz BW, differential mode. Measured with noise probe directly across output terminals.	<b>Isolation</b> Input-Output: 4000VAC, Input-Ground: 1500VAC, Output-Ground: 500VDC
<b>Output Voltage</b> See chart.	<b>Earth Leakage Current</b> <130µA at 264Vac, 60Hz.
<b>Minimum Load</b> Not required.	<b>Operating Temperature</b> 0° to 70°C (derate from full rated power above 40°C)
<b>Total Regulation</b> See chart.	<b>Output Power Derating</b> Derate Output Power by 2.5% per °C above 40°C, up to 70°C max.
<b>Transient Response</b> 500µs max., 50% load step, typical.	<b>Storage Temperature</b> -40 to +85°C.
	<b>Relative Humidity</b> 5% to 95%, non-condensing

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Model Number	Volts (V)	Output Current	Output Parameters		OVP Threshold	Initial Setpoint Tolerance
			Ripple & Noise	Total Regulation		
MINT1110A1208K01	12V	7.5A	120mV	±2%	15.0 ± 1V	±1%
MINT1110A1508K01	15V	6.5A	150mV	±2%	18.0 ± 1V	±1%
MINT1110A1808K01	18V	5.8A	180mV	±2%	23.0 ± 1V	±1%
MINT1110A2408K01	24V	4.6A	240mV	±2%	28.0 ± 1V	±1%

## Specifications (continued)

<b>Vibration</b> Operating: 0.003 g <sup>2</sup> /Hz, 1.5 g <sub>rms</sub> overall, 3 axes, 10 min. / axis Non-Operating: 0.026 g <sup>2</sup> /Hz, 5.0 g <sub>rms</sub> overall, 3 axes, 1 hr. / axis	<b>Shock</b> Operating: Half-sine, 20 g <sub>pk</sub> , 10 ms, 3 axes, 6 shocks total Non-Operating: Half-sine, 40 g <sub>pk</sub> , 10 ms, 3 axes, 6 shocks total
<b>Enclosure Dimensions</b> See outline drawing.	<b>Operating Altitude</b> -500 to 10,000 ft.
<b>Weight</b> 372 grams	<b>Non-operating Altitude</b> -500 to 40,000 ft.

## EMI/EMC Compliance

<b>Conducted Emissions</b>	EN55011 Class B, FCC Part 15, Class B.
<b>Static Discharge Immunity</b>	EN61000-4-2, 6kV Contact Discharge, 8kV air discharge
<b>Radiated RF Immunity</b>	EN61000-4-3, 10V/m.
<b>EFT/Burst Immunity</b>	EN61000-4-4, 2kV/5kHz..
<b>Line Surge Immunity</b>	EN61000-4-5, 1kV differential, 2kV common-mode
<b>Conducted RF Immunity</b>	EN61000-4-6, 3Vrms
<b>Power Frequency Magnetic Field Immunity</b>	EN61000-4-8, 3A/m
<b>Voltage Dip Immunity</b>	EN61000-4-11 240VAC, 0%/0.5 cycle, 40%/5cycles, 70%/25 cycles
<b>Line Frequency Harmonics</b>	EN61000-3-2, Class A

## Model Number Key

**MINT 1 110 A 12 08 K 01**

01 = Standard Configuration. 02 and higher indicate modified model.

Input Connector

Output Connector

Output Voltage

Model Configuration

Output Power (Watts)

# of Outputs

Product Family: "M" = Medical, "I" = Internal, "NT" = New Technology

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## Outline Drawing

### INPUT CONNECTOR:

J1 LANDWIN 3361P03E3TSN02

- PIN 1) AC LINE
- PIN 2) AC NEUTRAL

### OUTPUT CONNECTOR:

J2 LANDWIN P/N 3361P08E3T

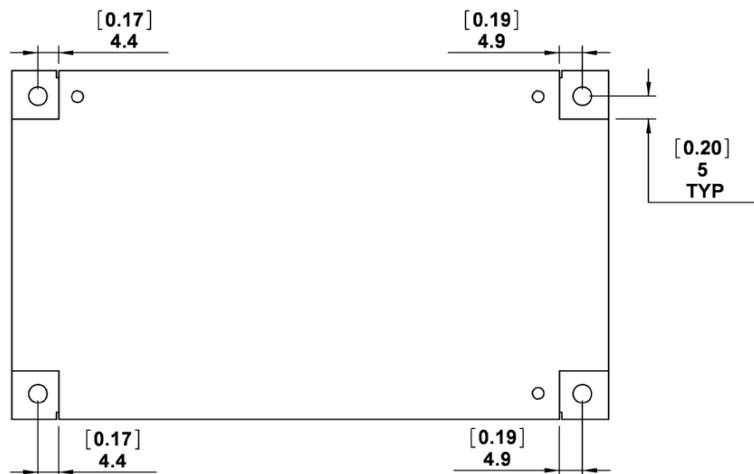
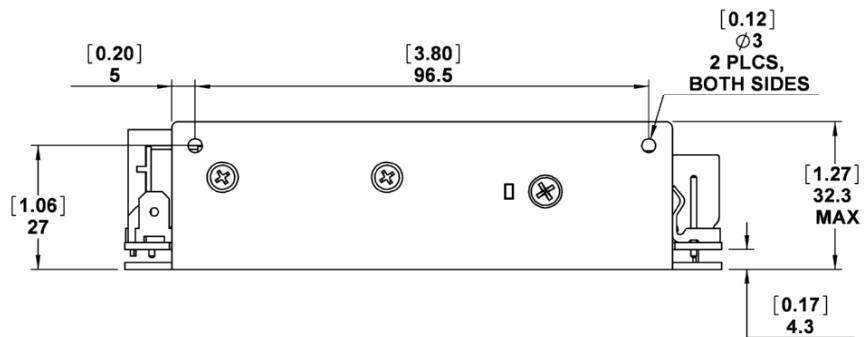
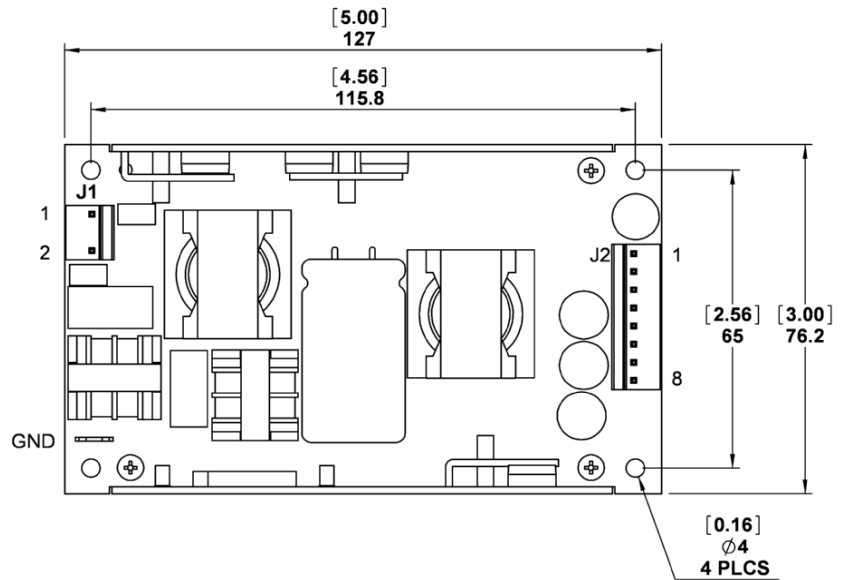
- PIN 1) +Vout
- PIN 2) +Vout
- PIN 3) +Vout
- PIN 4) +Vout
- PIN 5) -Vout
- PIN 6) -Vout
- PIN 7) -Vout
- PIN 8) -Vout

### MATING CONNECTORS:

- P1 AMP P/N MTA-156-3P
- P2 AMP P/N MTA-156-8P

### GROUND CONNECTION

0.250" FASTON TAB



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