

MINT1065

65W Single Output Series

Medical & ITE – Universal Input Power Supply



3 Year Warranty

- 65W Convection Cooled AC-DC Power Supply
- Universal Input 90-264 VAC
- Less than 0.5W No Load Power Dissipation
- Rugged EMC Compliant Design
- 2" x 4" x 1.2" Package
- Approved to EN/IEC/UL60601-1, 2nd Edition
- Approved to EN/CSA/IEC/UL62368-1
- Meets Efficiency Level IV Efficiency
- CE Compliant (LVD, RoHS)



International Safety Standard Approvals



Specifications

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

AC Input 100-240VAC +/- 10%, 47-63 Hz single phase.	Turn On Time Less than 1 second under all rated load conditions.
Input Current 115VAC: 1.6A, 230VAC: 0.7A.	Hold-up Time <17 ms at 65W, nominal input (120VAC).
Inrush Current The inrush at 264VAC, at a cold start, will not exceed 40A.	Overvoltage Protection Built-in
Input Fuses F1, F2: 2.5A, 250VAC fuses provided on all models.	Overload Protection Hiccup Mode
Earth Leakage Current <300µA @ 264Vac, 60Hz, normal; <500µA SFC.	Short Circuit Protection Hiccup Mode
Efficiency Up to 90% typical.	Switching Frequency Variable 50-75kHz typical.
Output Power 65W continuous.	Medical Safety Standards EN/IEC/UL 60601-1, 2 nd Edition, EN/CSA/IEC/UL62368-1
Ripple and Noise 1% pk-pk max., 20MHz BW, differential mode. Measured with noise probe directly across output terminals.	Isolation Input-Output: 4000VAC, Input-Ground: 1800VAC, Output-Ground: 500VAC
Output Voltage See chart.	Operating Temperature 0° to 70°C (derate from full rated power above 40°C).
Voltage Adjustability Voltage pre-set by fixed resistance.	Cooling Convection
Minimum Load Not required.	Output Power Derating See derating chart
Total Regulation +/- 2%. See chart.	Storage Temperature -40 to +85°C.
Transient Response 500µs max., 50% load step, typical.	Relative Humidity 5% to 95%, non-condensing

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Model Number	Volts (V)	Output Parameters			Total Regulation	OVP Threshold
		Open Frame	Output Current w/cover	Ripple & Noise		
MINT1065X1275C01	12V	5.25A	4.00A	120mV	±2%	15.0 ± 1.5V
MINT1065X1375C01	13.2V	4.80A	3.63A	140mV	±2%	16.0 ± 1.5V
MINT1065X1575C01	15V	4.33A	3.20A	150mV	±2%	18.0 ± 1.5V
MINT1065X1875C01	18V	3.50A	2.66A	180mV	±2%	21.0 ± 2.0V
MINT1065X2075C01	20V	3.25A	2.40A	200mV	±2%	23.0 ± 2.0V
MINT1065X2475C01	24V	2.70A	2.00A	240mV	±2%	27.0 ± 2.0V
MINT1065X4875C01	48V	1.35A	1.00A	480mV	±2%	55.0 ± 4.0V

Specifications (continued)

Vibration

Operating: 0.003 g²/Hz, 1.5 g_{rms} overall, 3 axes, 10 min. / axis
Non-Operating: 0.026 g²/Hz, 5.0 g_{rms} overall, 3 axes, 1 hr. / axis

Dimensions

W 2.0" x L 4.0" x H 1.17". See outline drawing.

Weight

150 grams

Shock

Operating: Half-sine, 20 g_{pk}, 10 ms, 3 axes, 6 shocks total
Non-Operating: Half-sine, 40 g_{pk}, 10 ms, 3 axes, 6 shocks total

Operating Altitude

-500 to 10,000 ft.

Non-operating Altitude

-500 to 40,000 ft.

EMI/EMC Compliance

Conducted Emissions

EN55011 Class B, FCC Part 15, Class B.

Radiated Emissions

EN55011 Class A, FCC Part 15, Class A.

Static Discharge Immunity

EN61000-4-2, 6kV Contact Discharge, 8kV air discharge

Radiated RF Immunity

EN61000-4-3, 3V/m.

EFT/Burst Immunity

EN61000-4-4, 2kV/5kHz..

Line Surge Immunity

EN61000-4-5, 1kV differential, 2kV common-mode

Conducted RF Immunity

EN61000-4-6, 3Vrms

Power Frequency Magnetic Field Immunity

EN61000-4-8, 3A/m

Voltage Dip Immunity

EN61000-4-11 240VAC, 0%/0.5 cycle, 40%/5cycles, 70%/25 cycles

Model Number Key

MINT 1 065 X 12 75 C 01

01 = Standard Model, 02 and higher indicates a modified model.

Input Connector - "C" = 2 pin header

"75" = Output Connector - 4 pin header

Output Voltage: "12" = 12V output, "24" = 24V output, etc.

Model Configuration: "A" = Class I (grounded); "B" = Class II (ungrounded); "C" =

Chassis/cover provided (class I only)

Output Power (Watts) - "065" = 65W

of Outputs

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

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Mechanical Drawings and Connector Information

MINT1065 Series Connectors

INPUT:

J1 AMP P/N 641937-1

PIN 1) AC LINE

PIN 2) AC NEUTRAL

OUTPUT:

J2 AMP P/N 640445-4

PIN 1) +Vout PIN 3) -Vout

PIN 2) +Vout PIN 4) -Vout

MATING CONNECTORS:

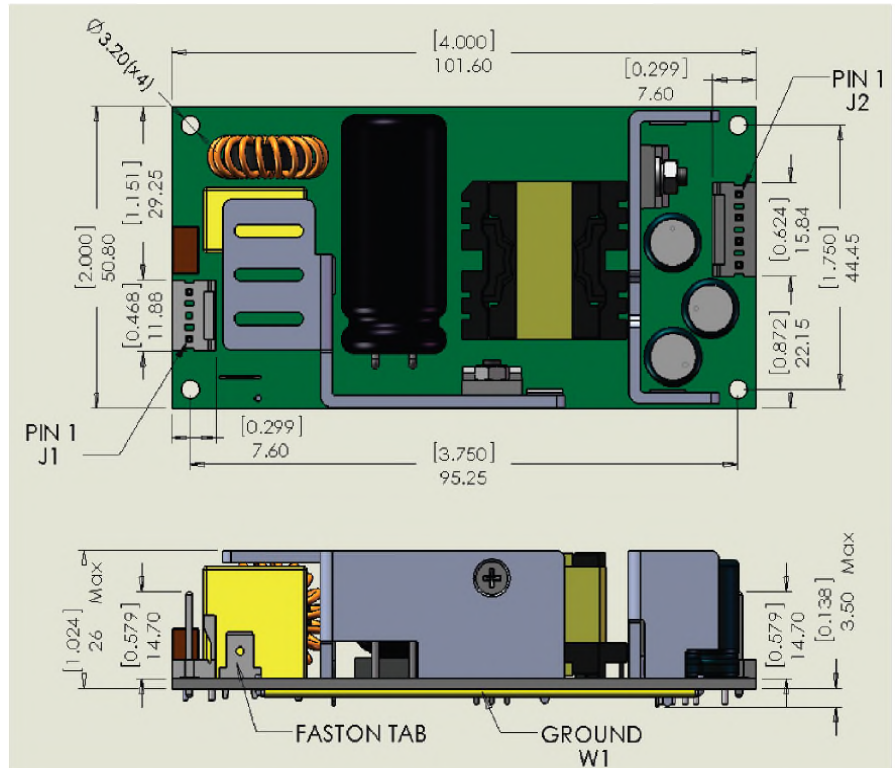
P1 Molex 09-50-3031

P2 Molex 09-50-3041

Pins: Molex 08-50-0105

GND CONNECTION (Class I version)

0.187" FASTON TAB



Output Power Derating Curve

