

MINT1065

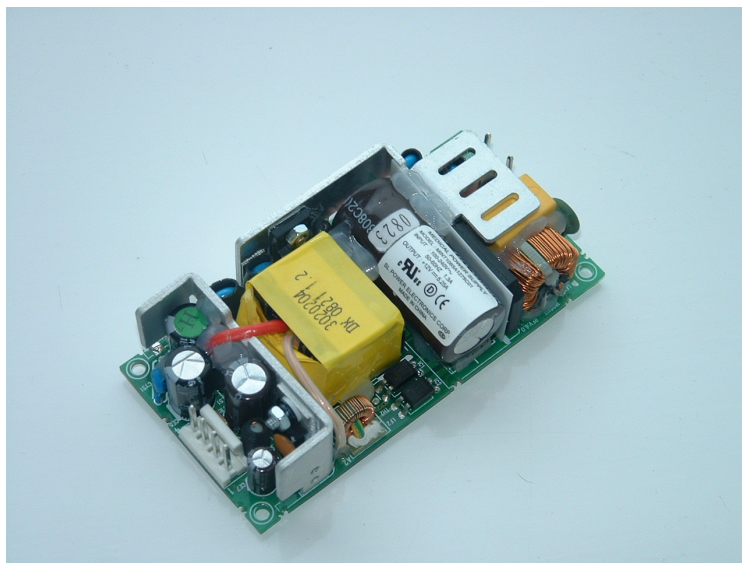
65W Single Output Series

Medical – Universal Input Power Supply



2 Year Warranty

- 65W Convection Cooled AC-DC Power Supply
- Universal Input 90-264 VAC
- Class I or Class II input versions
- Less 0.5W No Load Power Dissipation
- Rugged EMC Compliant Design
- 2" x 4" x 1.2" Package
- Approved to EN/IEC/UL60601-1 for Medical
- Meets Energy Star Level IV
-   Compliant (LVD, RoHS)
- Optional Chassis/Cover



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 2 seconds under all rated load conditions.
Input Current 115VAC: 0.7A, 230VAC: 1.5A.	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, CSA22.2, No. 601.1
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 – non-vented case.
Minimum Load Not required.	Output Power Derating Derate Output Power by 2.5% per °C above 40°C, up to 70°C max.
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

MINT1065

65W Single Output Series



Medical – Universal Input Power Supply

2 Year Warranty

Model Number	Volts (V)	Output Parameters		Total Regulation	OVP Threshold
		Output Current	Ripple & Noise		
MINT1065X1275C01	12V	5.25A	120mV	±2%	15.0 ± 1.5V
MINT1065X1375C01	13.2V	4.80A	140mV	±2%	16.0 ± 1.5V
MINT1065X1575C01	15V	4.33A	150mV	±2%	18.0 ± 1.5V
MINT1065X1875C01	18V	3.50A	180mV	±2%	21.0 ± 2.0V
MINT1065X2475C01	24V	2.70A	240mV	±2%	27.0 ± 2.0V
MINT1065X4875C01	48V	1.35A	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 B, FCC Part 15, Class B.
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 A 12 75 C 01

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

C = Input Connector - AMP 641937-1

75 = Output Connector - AMP 640445-4

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

Model Configuration: "A" = Class I Input; "B" = Class II Input;

"C" = Chassis & Cover Included (Class I Input only).

Output Power (Watts)

of Outputs

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

MINT1065

65W Single Output Series

Medical – Universal Input Power Supply

2 Year Warranty



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:

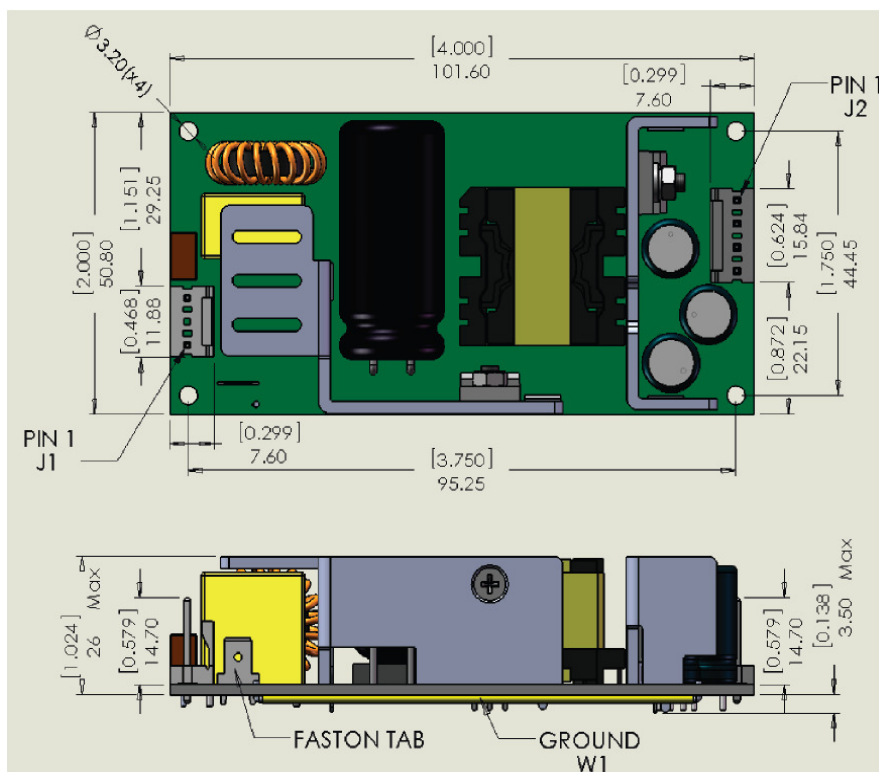
P1 Molex 09-50-3031

P2 Molex 09-50-3041

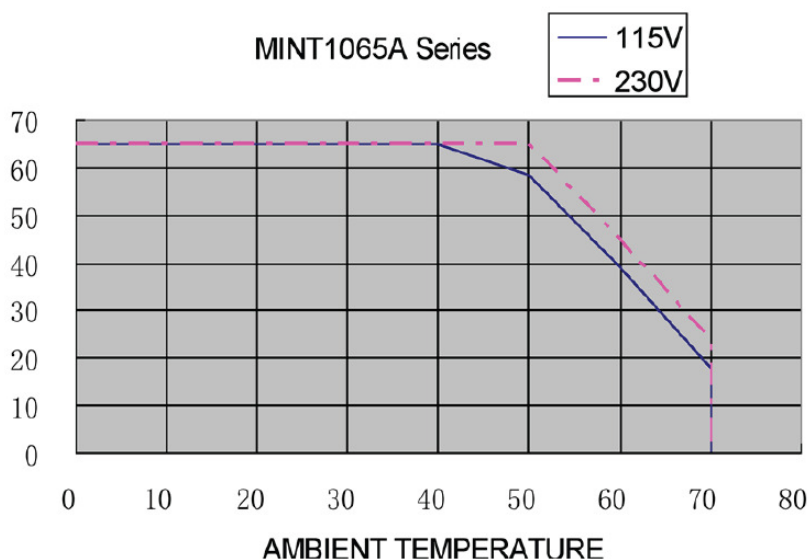
Pins: Molex 08-50-0105

GND CONNECTION (Class I version)

0.250" FASTON TAB



Output Power Derating Curve



Data Sheet © 2009 SL Power Electronics Corp. The information and specifications contained herein are believed to be correct at the time of publication. Rev. 10/15/2010
However, SL Power accepts no responsibility for consequences arising from reproduction errors or inaccuracies. Specifications are subject to change without notice.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

SL Power:

[MINT1065C1275C01](#) [MINT1065C1575C01](#) [MINT1065C1875C01](#) [MINT1065C2475C01](#) [MINT1065C4875C01](#)