



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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MINT1065D

65W Single Output Series

Medical, 3rd Edition Certified Universal Input Power Supply



3 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
- ANSI AAMI ES/CSA/EN/IEC 60601-1, 3rd Edition Certified
- Meets Efficiency Level IV Efficiency
- CE Compliant (LVD, RoHS)



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: 1.5A, 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 50A.	Oversvoltage Protection Built-in
Input Fuses F1, F2: 2.5A, 250VAC fuses provided on all models.	Overload Protection Hiccup Mode
Efficiency Up to 90% typical.	Short Circuit Protection Hiccup Mode
Earth Leakage Current Earth Leakage Current <300µA, NC; <500µA SFC @ 264Vac, 60Hz Touch Current is <100µA NC, <500µA SFC @ 264Vac, 60Hz, measured from output to ground	Isolation Input-Output: 4000Vac/2 MOOP Input-Ground: 1500Vac/1MOOP
Output Power 65W continuous.	Medical Safety Standards ANSI AAMI ES/CSA/EN/IEC 60601-1, 3rd Edition
Ripple and Noise 1% pk-pk max., 20MHz BW, differential mode. Measured with noise probe directly across output terminals.	Switching Frequency Variable 50-75kHz typical.
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		Ripple & Noise	Total Regulation	OVP Threshold
		Output Current Open Frame	Output Current w/cover			
MINT1065D1275K01	12V	5.25A	4.00A	120mV	±2%	15.0 ± 1.5V
MINT1065D1375K01	13.2V	4.80A	3.63A	140mV	±2%	16.0 ± 1.5V
MINT1065D1575K01	15V	4.33A	3.20A	150mV	±2%	18.0 ± 1.5V
MINT1065D1875K01	18V	3.50A	2.66A	180mV	±2%	21.0 ± 2.0V
MINT1065D2475K01	24V	2.70A	2.00A	240mV	±2%	27.0 ± 2.0V
MINT1065D4875K01	48V	1.35A	1.00A	480mV	±2%	55.0 ± 4.0V

Specifications (continued)

Vibration Operating: 0.003 g ² /Hz, 1.5 g _{rms} overall, 3 axes, 10 min. / axis Non-Operating: 0.026 g ² /Hz, 5.0 g _{rms} overall, 3 axes, 1 hr. / axis	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
Pollution Degree 2	Overvoltage Category OVCII (2500V for Mains), OVCI (1500V for Secondary)
Dimensions W 2.0" x L 4.0" x H 1.17". See outline drawing.	Operating Altitude Up to 4000m.
Weight 150 grams	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 K 01

Model:	"01" = Standard Model, 02 and higher indicates a modified model.
Input Connector:	"K" = 3 pin Header (class I input); "C" = 2 pin Header (class II input).
Output Connector:	"75" = Output Connector, 4 pin header. Other options available, consult factory.
Output Voltage:	"12" = 12V, "24" = 24V, etc.
Configuration:	"D" = EN60601-1 3rd Edition Certified, "C" = Optional chassis & cover (class I only).
Output Power:	"065" = 65W
# of Outputs:	"1" = Single output
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:

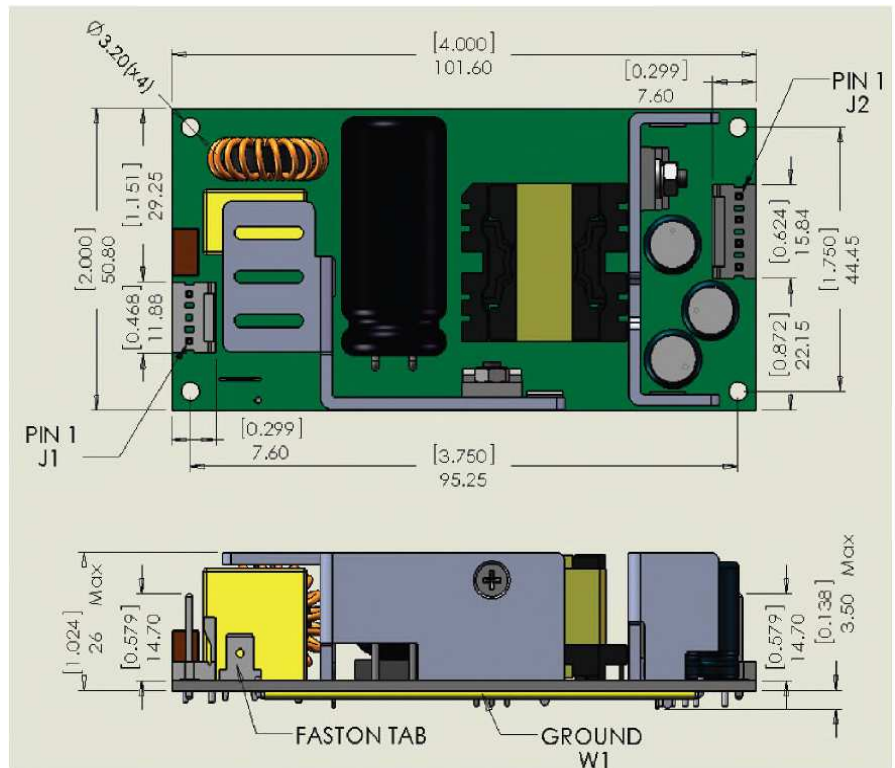
P1 Molex 09-50-3031

P2 Molex 09-50-3041

Pins: Molex 08-50-0105

GND CONNECTION (Class I version)

0.250" FASTON TAB



Output Power Derating Curve

