# **MINT1065D**



65W Single Output Series

### Medical, 3<sup>rd</sup> 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
- .C € Compliant (LVD, RoHS)







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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.	Turn On Time Less than 1 second 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
<b>Efficiency</b> Up to 90% typical.	Short Circuit Protection Hiccup Mode
Earth Leakage Current <300μA @ 264Vac, 60Hz, normal; <500μA SFC. Touch Current i <100μA NC, <500μA SFC @ 264Vac, 60Hz, measured from outp ground	
Output Power 65W continuous.	Medical Safety Standards ANSI AAMI ES/CSA/EN/IEC 60601-1, 3rd Edition
<b>Ripple and Noise</b> 1% pk-pk max., 20MHz BW, differential mode. Measured with no probe directly across output terminals.	Switching Frequency
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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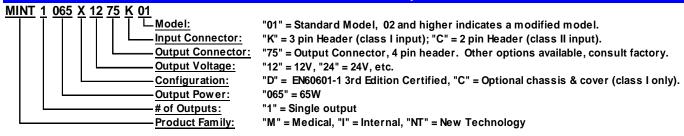
Output Parameters						
Model Number	Volts (V)	Output C Open Frame	urrent w/cover	Ripple & Noise	Total Regulation	OVP Threshold
MINT1065D1275K01	12V	5.25A	4.00A	120mV	±2%	15.0 ± 1.5V
MINT1065D1375K01	13.2V	4.80A	3.63A	140mV	±2%	16.0 ± 1.5V
MINT1065D1575K01	15V	4.33A	3.20A	150mV	±2%	18.0 ± 1.5V
MINT1065D1875K01	18V	3.50A	2.66A	180mV	±2%	$21.0 \pm 2.0 \text{V}$
MINT1055D2075K01	20V	3.25A	2.40A	200mV	±2%	$23.0 \pm 2.0 \text{V}$
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		Shock		
Operating:	0.003 g <sup>2</sup> /Hz, 1.5 g <sub>rms</sub> overall, 3 axes, 10 min. / axis	Operating: Half-sine, 20 g <sub>pk</sub> , 10 ms, 3 axes, 6 shocks total		
Non-Operating:	0.026 g <sup>2</sup> /Hz, 5.0 g <sub>ms</sub> overall, 3 axes, 1 hr. / axis	Non-Operating: Half-sine, 40 g <sub>pk</sub> , 10 ms, 3 axes, 6 shocks total		
<b>Pollution Degree</b>		Overvoltage Category		
2		OVCII (2500V for Mains), OVCI (1500V for Secondary)		
Dimensions		Operating Altitude		
W 2.0" x L 4.0" x	H 1.17". See outline drawing.	Up to 4000m.		
Weight		Non-operating Altitude		
150 grams		-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**



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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

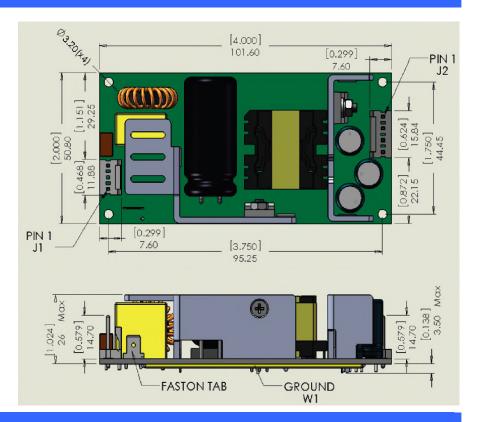
PIN 1) +Vout PIN 3) -Vout PIN 2) +Vout PIN 4) -Vout

#### MATING CONNECTORS:

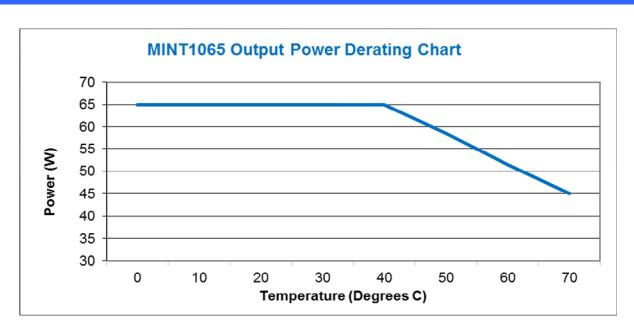
P1 Molex 09-50-3031 P2 Molex 09-50-3041 Pins: Molex 08-50-0105

#### GND CONNECTION (Class I version)

**0.187" FASTON TAB** 



#### **Output Power Derating Curve**



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