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

.C € Compliant (LVD, RoHS)







Specifications	All Specifications are typical at nominal input, full load at 25°C unless otherwise stated.
AC Input	Turn On Time
100-240VAC +/- 10%, 47-63 Hz single phase.	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	Overvoltage Protection
The inrush at 264VAC, at a cold start, will not exceed 40A.	Built-in
Input Fuses	Overload Protection
F1, F2: 2.5A, 250VAC fuses provided on all models.	Hiccup Mode
Efficiency	Short Circuit Protection
Up to 90% typical.	Hiccup Mode
Earth Leakage Current <300 μ A @ 264Vac, 60Hz, normal; <500 μ A SFC. Touch Curren <100 μ A NC, <500 μ A SFC @ 264Vac, 60Hz, measured from ou ground	
Output Power	Medical Safety Standards
65W continuous.	ANSI AAMI ES/CSA/EN/IEC 60601-1, 3rd Edition
Ripple and Noise 1% pk-pk max., 20MHz BW, differential mode. Measured with probe directly across output terminals.	Switching FrequencynoiseVariable 50-75kHz typical.
Output Voltage	Operating Temperature
See chart.	0° to 70°C (derate from full rated power above 40°C).
Voltage Adjustability	Cooling
Voltage pre-set by fixed resistance.	Convection
Minimum Load	Output Power Derating
Not required.	See derating chart
Total Regulation	Storage Temperature
+/- 2%. See chart.	-40 to +85°C.
Transient Response	Relative Humidity
500μs max., 50% load step, typical.	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 ± 2.0V
MINT1055D2075K01	20V	3.25A	2.40A	200mV	±2%	23.0 ± 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		Shock
Operating: Non-Operating:	0.003 g ² /Hz, 1.5 g _{rms} overall, 3 axes, 10 min. / axis 0.026 g ² /Hz, 5.0 g _{rms} overall, 3 axes, 1 hr. / axis	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		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

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

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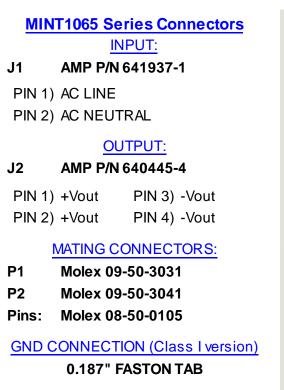
MINT1065D

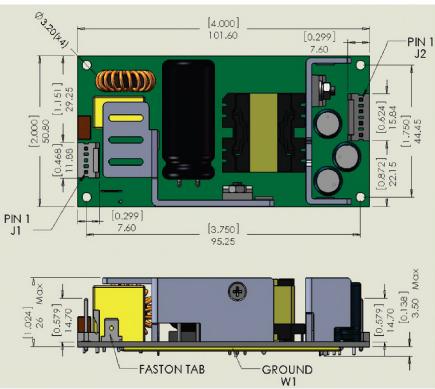
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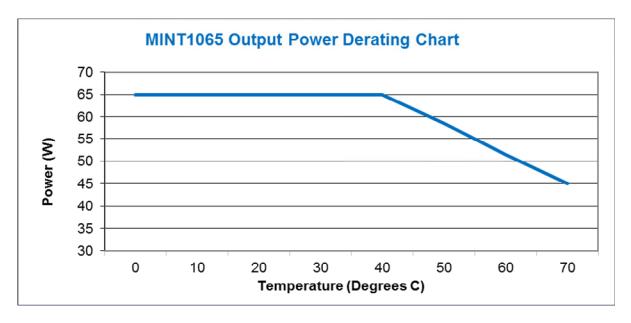
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Mechanical Drawings and Connector Information





Output Power Derating Curve



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