

MINT1065A

65 Watt Single Output Series



Medical - Universal Input Power Supply

2 Year Warranty

- Size: 2" x 4" x 1.02"
- <0.5 Watt Standby Power Dissipation
- Meets Energy Star Level IV
- Up to 90% High Efficiency
- Class I Input
- EN60601-1 Medical Approval



International Safety Standard Approvals



Specifications

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

Output Specifications

Total Regulation (Line and Load)		+/- 2%
Turn-on Time		< 2 sec
Hold-up Time		>17 msec min. from loss of AC input at full load, nominal line (120VAC/60Hz)
Ripple & Noise		1% p-p max. with 20MHz BW
Transient Response		500 us typical to 0.5% for 50% step, di/dt< 0.2 A/us, max 3.5% deviation
Protection	Over Current Protection Short Circuit Protection Over Voltage Protection Over Temperature Protection	Hiccup mode Hiccup mode Built-in Option

Input Specifications

Voltage		100-240VAC, +/-10%
Frequency		47-63Hz
Input Current		1.5A – 0.7A @ 100VAC – 240VAC
Input Surge Current	264VAC (Cold start)	40A max.
Input Fuse	UL/IEC127	T2.5A, 250V
Leakage Current		<300uA @ 264VAC @ 60Hz, normal <500uA @ 264VAC @ 60Hz, single fault condition

Environmental Specifications

Operating Temperature		0-40° C full load and 40-70° C according to the derating curve
Storage Temperature		-40 to 85° C
Relative Humidity		0%-95%
Altitude	Operating	-500 to 10,000 ft. MSL
	Non-Operating	-500 to 40,000 ft. MSL
Cooling		Convection - non vented case
Shock & Vibration		
Random Vibration	Operating	0.003 g ² /Hz, 1.5 grms overall, 3 axes, 10 min. / axis
	Non-Operating	0.026 g ² /Hz, 5.0 grms overall, 3 axes, 1 hr. / axis
Shock	Operating	Half-sine, 20 gpk, 10 ms, 3 axes, 6 shocks total
	Non-Operating	Half-sine, 40 gpk, 10 ms, 3 axes, 6 shocks total

General Specifications

Efficiency		Up to 90% Typical
Switching Frequency		Variable 50-75 kHz Typical
Isolation voltage	Input/Output Input/Earth Output/Earth	4000VAC 1800VAC 500VAC
Approvals and Standards	Safety	EN/IEC/UL 60601-1, CSA 22.2 No. 601-1

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Medical Model	Voltage Output	Output Current 40°C	Tolerance Regulation	OVP Limit	Ripple/ Noise
MINT1065A1275C01	12V	5.25A	2%	15±1.5V	1%
MINT1065A1575C01	15V	4.33A	2%	18±1.5V	1%
MINT1065A1875C01	18V	3.50A	2%	21±2V	1%
MINT1065A2475C01	24V	2.70A	2%	27±2V	1%
MINT1065A4875C01	48V	1.35A	2%	55±4V	1%

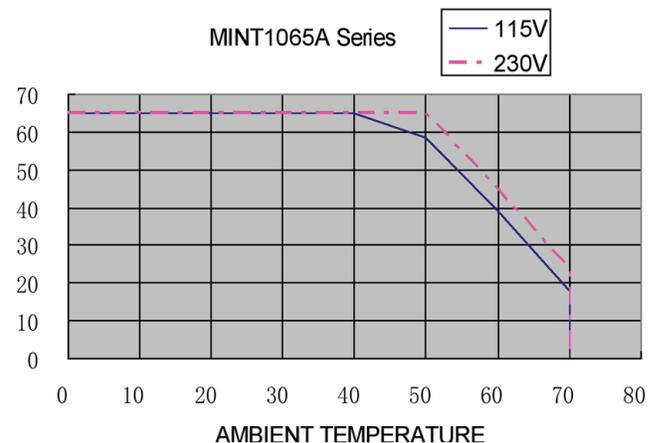
Condor Part Number Key

M	I	N	T	1	065	A	12	75	C	01
Medical	Internal	Standard	Factory Location	No. of Outputs	Output Wattage	Design Rev of Product	Output Voltage	Output Connector	Input Connector	Standard Configuration

General Specifications (continued from p. 1)

MTBF	>300k hours
Dimensions	W 2.0" x L 4.0" x H 1.17"
Weight	150 Grams
EMC Specifications	
Conducted emissions:	Class B
Radiated emissions:	Class A
ESD air:	IEC 61000-4-2, 8kV
ESD contact:	IEC 61000-4-2, 6kV
Conducted immunity:	IEC61000-4-6, 3Vrms
Radiated immunity:	IEC 61000-4-3, 3V/m
Fast transients:	IEC 61000-4-4, 2kV/5kHz
Surge:	IEC 61000-4-5, 1kV Differential, 2kV Common
Power freq. Mag. Field:	IEC61000-4-8, 3A/m
Voltage dip immunity:	IEC61000-4-11 240VAC, 0% / 0.5 cycle, 40% / 5 cycles, 70% / 25 cycles

Output Power Derating Curve



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Mechanical Specifications

CLASS I Input

Mechanical Notes:

INPUT	J1 AMP P/N: 641937-1
	PIN 1 AC LINE
	PIN 2 AC NEUTRAL

OUTPUT	J2 AMP P/N: 640-445-4
	PIN 1 OUTPUT 1
	PIN 2 OUTPUT 1
	PIN 3 COMMON
	PIN 4 COMMON

MATING CONNECTOR (TYCO/MOLEX)	
INPUT	HOUSING 09-50-3031 CONTACT 08-50-0105
OUTPUT	HOUSING 09-50-3041 CONTACT 08-50-0105

FASTON TAB GND LANDWIN P/N: 3201T122R	
GROUND LINE (W1)	0.253 FEET

