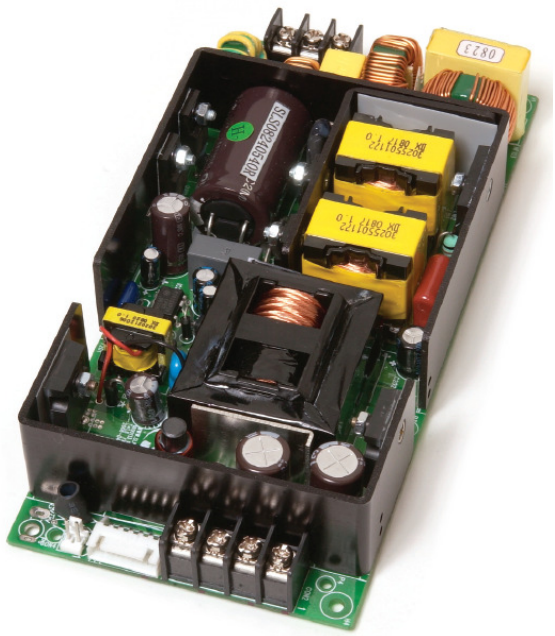
MINT2270A

270W Dual Output Series

Medical – Universal Input Power Supply

2 Year Warranty

- *270W Convection Cooled AC-DC Power Supply*
- *Up to 90% Efficiency Typical*
- *Natural Interleaving Technology for PFC*
- *LLC Technology for DC Converter*
- *Remote ON/OFF by PS-ON Signal*
- *Approved to EN/IEC/UL60601-1 for Medical*
- *DC-OK, AC-OK Signal Active*
- CE *Compliant (LVD, RoHS)*



International Safety Standard Approvals

CE RoHS cULus D

CONDOR™

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: 3.0A max.	**Hold-up Time** 16 ms at 270W, nominal input (120VAC).
Inrush Current The inrush at 264VAC, at a cold start, will not exceed 45A.	**Overvoltage Protection** See chart for levels, latching type
Input Fuse T6.3A, 250VAC fuse provided on all models.	**Overload Protection** Hiccup Mode
Power Factor Complies with EN61000-3-2.	**Short Circuit Protection** Hiccup Mode
Efficiency 90% typical.	**Overtemperature Protection** Provided on all models, auto-recovery.
Output Power 270W continuous.	**Medical Safety Standards** EN/IEC/UL 60601-1, CSA22.2, No. 60601.1
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: 1500VAC, Output-Ground: 707VDC
Output Voltages See chart.	**Earth Leakage Current** 260µA typical at 264Vac, 50Hz.
Total Regulation See chart.	**Operating Temperature** 0° to 70°C, refer to derating curve.
Minimum Load Not required.	**Storage Temperature** -40 to +85°C.
Transient Response 500µs max. for a 50% load step, with 5mSec high load and 5mSec low load.	**Relative Humidity** 5% to 95%, non-condensing
Enclosure Dimensions & Weight 3.35"W x 7.17"L x 1.17"H. See outline drawing. Weight: 550 grams	**MTBF (Mean-Time-Between-Failure):** 325,000 hours at 40°C operating ambient temperature.

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Model Number	Output No.	Output Volts (V)	Output Parameters: Output Current	Ripple & Noise	Total Regulation	OCP Limit	OVP Limit
MINT2270A1976E0X	1	5V	0.2A	1%	5%	1.5A	7.0V
	2	24V	11.25A	1%	2%	15.5A	30.0V

Note: "X" in model number as shown above is replaced by a numeral which will signify the remote on/off configuration, or other potential modifications. See model number key below.

Specifications *(continued)*

Remote ON/OFF (PS-ON):
On = logic high, off = logic low or open.
Model suffix "01" will be in the normally OFF configuration. Model suffix "02" will be in the normally "ON" configuration.

AC-OK Signal
"High" when input voltage exceeds 68VAC, "Low" when input voltage is less than 68VAC.

DC-OK Signal
"High" when the 24V output is within normal range. "Low" upon an overvoltage, overcurrent, undervoltage, or short circuit condition, or when the PS-ON is disabled ("OFF").

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

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

Altitude
Operating: -500 to 10,000 ft. MSL
Non-Operating: -500 to 40,000 ft. MSL

EMI/EMC Compliance

Conducted 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, 10V/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
Line Frequency Harmonics	EN61000-3-2, Class A

Model Number Key

MINT 2 270 A 19 76 E 01

- **01** = Standard Model, Remote ON/OFF in "OFF" configuration.
  02 = Standard Model, Remote ON/OFF in "ON" configuration.
  03 and higher indicates a modified model.
- **E** = Input Connector
- **76** = Output Connector
- **19** = Output Voltage Configuration, "19" = 5V, 24V outputs
- **A** = Model Configuration
- **270** = Output Power (Watts)
- **2** = # of Outputs
- **MINT** = Product Family: "M" = Medical, "I" = Internal, "NT" = New Technology

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MINT2270A

270W Dual Output Series

Medical – Universal Input Power Supply **2 Year Warranty**

Outline Drawing & Connector Information

INPUT, OUTPUT and SIGNAL CONNECTORS:

CON1 M3 Screw terminals, 7.62mm pitch

PIN 1) GND
PIN 2) AC NEUTRAL
PIN 3) AC LINE

CON2 M3 Screw terminals, 7.62mm pitch

PIN 1)	RTN	PIN 3)	24V
PIN 2)	RTN	PIN 4)	24V

CON3 Landwin 2502P0600T

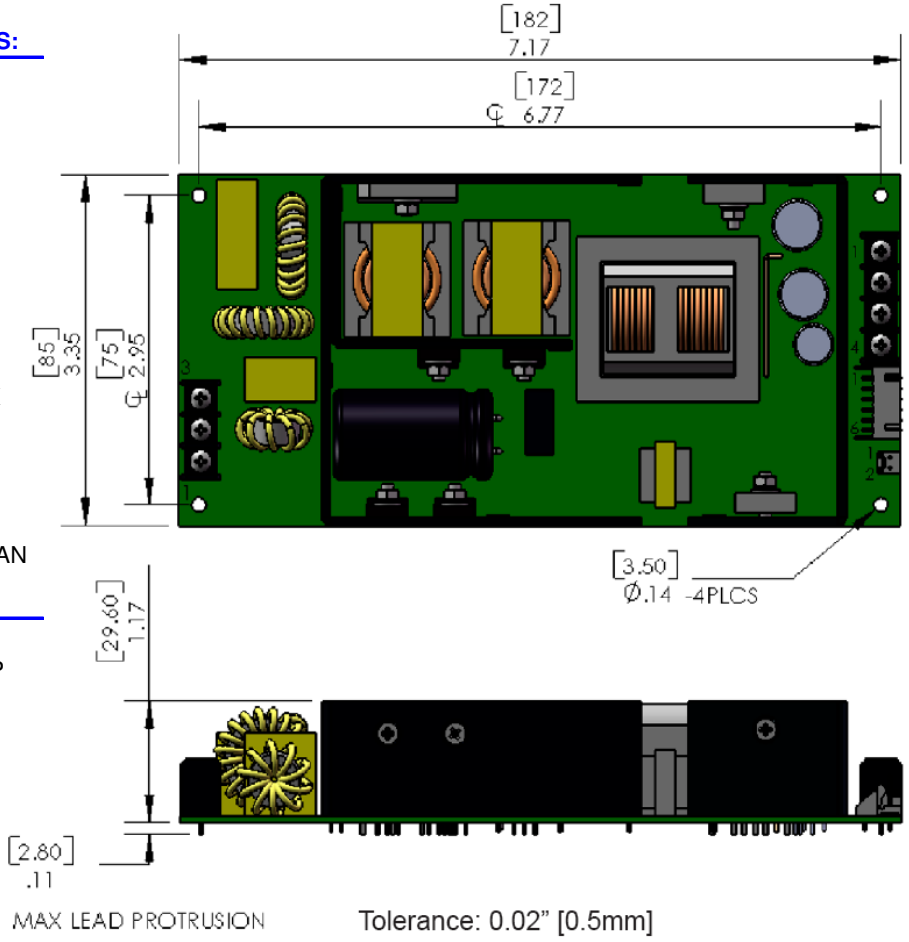
PIN 1)	RTN	PIN 4)	DC-OK
PIN 2)	RTN	PIN 5)	AC-OK
PIN 3)	5V SB	PIN 6)	PS-ON

CON4 AMP 640456-2

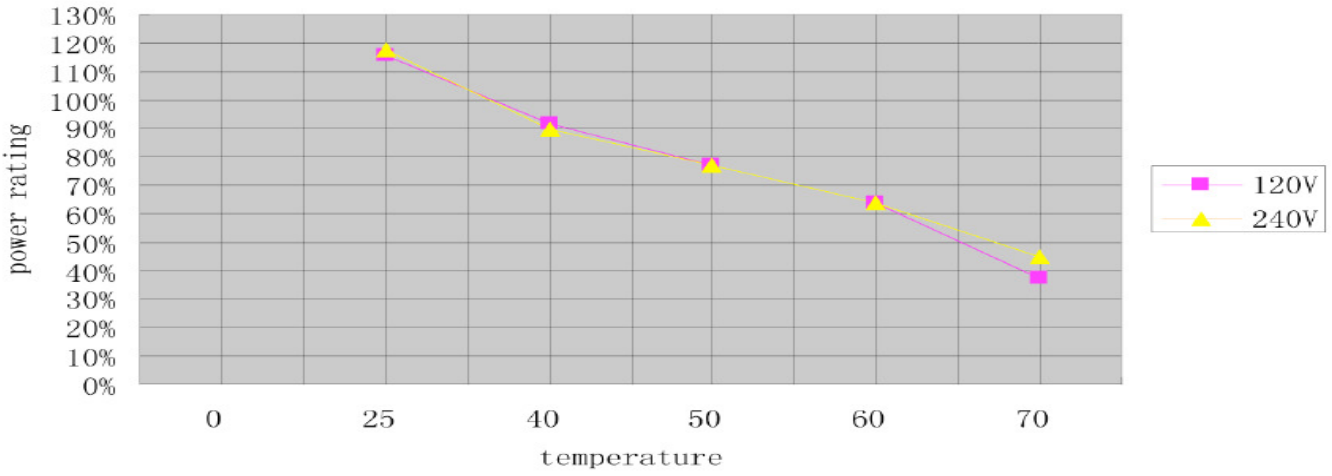
PIN 1)	RTN	PIN 2)	24V for FAN

MATING CONNECTORS:

CON1, 2: Wire Lugs - Barrier width = 6.62mm
CON3: Landwin 2500S060, PINS: 2503T012P
CON4: AMP 1375820-2, PINS: 1375913-3



Output Power Derating Curve



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Rev. 11/2/2010

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