MINT2270A



Medical - Universal Input Power Supply



2 Year Warranty



- ·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
- .C € Compliant (LVD, RoHS)



International Safety Standard Approvals





Specifications All S	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.
nput Current 15VAC: 3.0A max.	Hold-up Time 16 ms at 270W, nominal input (120VAC).
nrush Current he inrush at 264VAC, at a cold start, will not exceed 45A.	Overvoltage Protection See chart for levels, latching type
nput Fuse 6.3A, 250VAC fuse provided on all models.	Overload Protection Hiccup Mode
Power Factor Complies with EN61000-3-2.	Short Circuit Protection Hiccup Mode
Efficiency 10% typical.	Overtemperature Protection Provided on all models, auto-recovery.
Output Power 70W continuous.	Medical Safety Standards EN/IEC/UL 60601-1, CSA22.2, No. 60601.1
Ripple and Noise % 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
Dutput Voltages See chart.	Earth Leakage Current 260µA typical at 264Vac, 50Hz.
otal Regulation ee chart.	Operating Temperature 0° to 70°C, refer to derating curve.
linimum Load lot required.	Storage Temperature -40 to +85°C.
ransient Response 00µs max. for a 50% load step, with 5mSec high load and 5mSec lo pad.	Relative Humidity 5% to 95%, non-condensing
Enclosure Dimensions & Weight 1.35"W x 7.17"L x 1.17"H. See outline drawing. Veight: 550 grams	MTBF (Mean-Time-Between-Failure): 325,000 hours at 40°C operating ambient temperature.

MINT2270A



270W Dual Output Series

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Output Parameters							
Model Number	Output No.	Output Volts (V)	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.

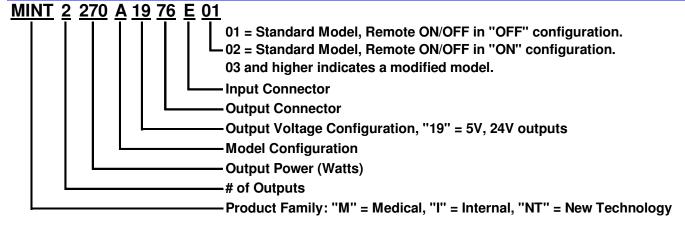
Specifications (continued)

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.	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		
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")	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
O - u de eta d DE la manifer	FN04000 4 0 0V

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 **Line Frequency Harmonics** EN61000-3-2, Class A

Model Number Key



MINT2270A





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

CON3 Landwin 2502P0600T

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

CON4 AMP 640456-2

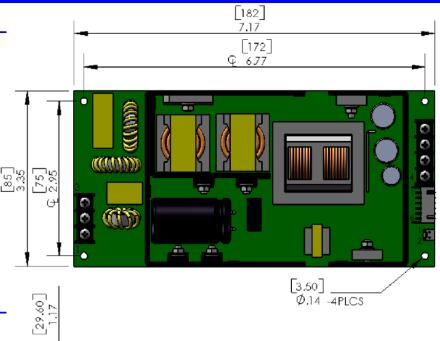
PIN 1) RTN PIN 2) 24V for FAN

MATING CONNECTORS:

CON1, 2: Wire Lugs - Barrier width = 6.62mm

CON3: Landwin 2500S060, PINS: 2503T012P

CON4: AMP 1375820-2, PINS: 1375913-3



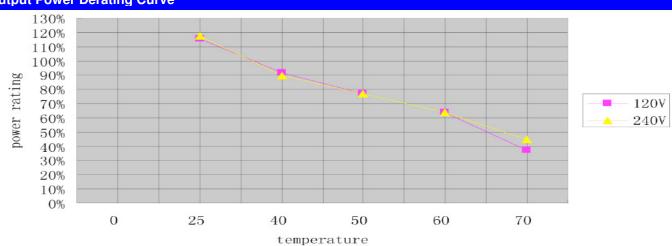
MAX LEAD PROTRUSION

2.80

Tolerance: 0.02" [0.5mm]

O

Output Power Derating Curve



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