



CONDOR

Medical - Universal Input Power Supply

- 90-264 VAC Input
- Overvoltage and Short Circuit Protection
- Compact Size, Low Profile 2.0" x 3.5" x 0.67"
- Approved to UL, CSA and EN Standards
- CE Compliant (LVD, EMC, RoHS)
- Low Standby Power Loss (<0.5 W)



International Safety Standard Approvals



Specifications

Output Specifications					
Output Power	Natural Convection	22 Watts continuous, 24 W peak for 60 sec- onds, 10% duty cycle			
Minimum Load		Not required			
Total Regulation	(Line and Load)	1.5%, see table			
Rise Time	At turn-on	100 ms max.			
Transient Response	50% step load, 0.2A/µs	4% max. dev., 1.5 msec max. recovery to 0.5%			
Temperature Coefficien	t	+/-0.03%/° C typical			
Overvoltage Protection		Standard - See chart			
Voltage Adjustability		Factory set with fixed resistors to maximize reliability			

Input Specifications Voltage Universal Input 90-240VAC (Nominal 100-240VAC) Frequency 47-63Hz Input Surge Current Thermistor limited 32A max. Earth leakage current 264V, 60Hz 125 µA max. (200 µA single fault) Input Current 120VAC 0.45A 230VAC 0.25A Input Fuse F1 2.0 A

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

Environmental Specifications

Thermal Performance	Operating ambient (see ratings chart)	0-70° C
	Non-operating	-40 to +85° C
	0-50° C	Full load. See table.
	50-70° C ambient	derate to 50%
Relative Humidity	Non-condensing	0-95% RH
Maximum Altitude	Operating /non-operating	10,000 ft./40,000 ft. max.
Vibration	5Hz-500Hz	2.5 g rms
Shock	Per MIL-STD-810E	516.4 part IV

General Specifications					
Hold-up Time	120VAC, 60Hz	15ms min. at 22W output			
Efficiency	120VAC, 22W output	70-80% typical depending on output voltage			
Switching Frequency	Fixed	15 to 100kHz, varies with line and load			
Safety Approvals	Medical	UL/EN/IEC 60601-1 CSA22.2 No.601			
Maximum Weight		100 Grams (0.20 lbs)			
MTBF	25° C, ground benign, Telcordia	300,000 hours			
Overload and short circuit protection	Fully protected	Cycling type power limit			

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Medical Model	Voltage Output	Output Current	Total Regulation	Initial Setpoint Tolerance	Ripple/ Noise	OVP Setpoint
MINT1022A0505I01	5V	4.40A	+/-1.5%	+/-2.5%	100mV	6.2+/-0.6V
MINT1022A1205I01	12V	1.83A	+/-1.5%	+/-2.5%	120mV	14.1+/-1.1V
MINT1022A2405I01	24V	0.92A	+/-1.5%	+/-2.5%	240mV	28+/-2.5V

Notes

1. Other output voltages available by special order

2. Regulation from initial setpoint for 50% load change from 50% to 0% or 100%

3. Peak output rating is 24 Watts for 1 minute

4. 20MHz Bandwidth scope, differential mode. Measured with scope probe directly across output terminals of the power supply with load terminated with 0.1 µF

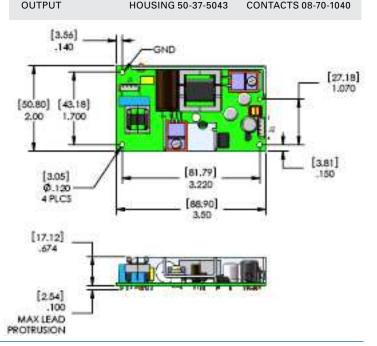
5. Heatsink temperatures should not be allowed to exceed 90° C

6. Installation data is online at www.slpower.com

Condor Part Number Key										
М	I	Ν	Т	1	022	А	05	05	I	01
Medical	Internal	Standard Product	Factory Designation	No. of Outputs	Output Wattage	Initial Design of the Product	Output Voltage	Output Connector	Input Connector	Standard Configuration

General Specifications (continued from p. 1)					
EN55011	Level B				
EN55011	Level B				
EN61000-3-2	Complies				
EN61000-3-3	Complies				
EN61000-4-2	6 kV contact				
EN61000-4-2	8 kV air				
EN61000-4-3	3 V/m				
EN61000-4-4	2 kV/5 kHz				
EN61000-4-5	1 kV diff /2 kV				
	common mode				
EN61000-4-6	3 Vrms				
EN61000-4-8	3 A/m				
EN61000-4-11	Consult Factory				
	EN55011 EN55011 EN61000-3-2 EN61000-3-3 EN61000-4-2 EN61000-4-2 EN61000-4-3 EN61000-4-4 EN61000-4-5 EN61000-4-6 EN61000-4-8				

Mechanical Not	es			
INPUT	J1 MOLEX 22-43-8040			
	PIN 1 AC LINE			
	PIN 4 AC NEUTRAL			
GROUND	SOLDER HOLE ON BOA	RD		
OUTPUT	J2 MOLEX 22-43-8040			
	PIN 1 OUTPUT 1			
	PIN 2 OUTPUT 1			
	PIN 3 COMMON			
	PIN 4 COMMON			
MATING CONNECTOR (MOLEX)				
INPUT	HOUSING 50-37-5043	CONTACTS 08-70-1040		
		CONTACTO 00 70 1040		





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