IVINT 102222 Watt Single Output Series



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

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

| 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 Coefficient | | +/-0.03%/° C typical | | | |
| Overvoltage Protection | | Standard - See chart | | | |
| Voltage Adjustability | | Factory set with fixed resistors to maximize reliability | | | |

| Input Specifications | | |
|-----------------------|--------------------|--------------------------------------|
| Voltage | Universal Input | 90-264VAC (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 230VAC | 0.45A 0.25A |
| Input Fuse | F1 | 2.0 A |

| Environmental Specifications | | | | | | |
|------------------------------|---|--|--|--|--|--|
| Thermal Performance | Operating ambient 0-50° C 50-70° C ambient Non-operating | 0-70° C Full load. See table. derate to 50% -40 to +85° C | | | | |
| 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 Specification | ons | |
|---------------------------------------|------------------------------------|--|
| 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 |



Medical - Universal Input Power Supply

| 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 | | | | | | | | | | |
|------------------------|----------|---------------------|------------------------|-------------------|-------------------|-------------------------------|-------------------|---------------------|--------------------|---------------------------|
| M | 1 | N | Т | 1 | 022 | Α | 05 | 05 | 1 | 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) | | | | | |
|--|--------------|-----------------|--|--|--|
| EMC Information | | | | | |
| Conducted emissions | EN55011 | Level B | | | |
| Radiated emissions | EN55011 | Level B | | | |
| Line freq. harmonics | EN61000-3-2 | Complies | | | |
| Voltage fluctuations | EN61000-3-3 | Complies | | | |
| ESD Contact | EN61000-4-2 | 6 kV contact | | | |
| ESD Air | EN61000-4-2 | 8 kV air | | | |
| Radiated immunity | EN61000-4-3 | 3 V/m | | | |
| Fast Transients (EFT) | EN61000-4-4 | 2 kV/5 kHz | | | |
| Line surge immunity | EN61000-4-5 | 1 kV diff /2 kV | | | |
| | | common mode | | | |
| Conducted immunity | EN61000-4-6 | 3 Vrms | | | |
| Power freq. mag. field | EN61000-4-8 | 3 A/m | | | |
| Voltage dip immunity | EN61000-4-11 | Consult Factory | | | |

| Mechanical Notes | 3 | |
|-----------------------------------|---|--|
| INPUT GROUND | J1 MOLEX 22-43-8040 PIN 1 AC LINE PIN 4 AC NEUTRAL SOLDER HOLE ON BOA | RD |
| ОИТРИТ | J2 MOLEX 22-43-8040 PIN 1 OUTPUT 1 PIN 2 OUTPUT 1 PIN 3 COMMON PIN 4 COMMON | |
| MATING CONNECT INPUT OUTPUT | OR (MOLEX) HOUSING 50-37-5043 HOUSING 50-37-5043 | CONTACTS 08-70-1040 CONTACTS 08-70-1040 |



