

# MINT1022A SERIES INSTALLATION INSTRUCTIONS

**MODEL NUMBERS:** MINT1022AWXYZ, where W represents the output voltage which may be any number from 05 thru 24; X indicates the type of output connector which may be any number from 01 thru 99; Y indicates the input connector options which may be any letter from A thru Z; and Z indicates the configuration options which may be the number 01 for standard configuration or 02 thru 99 for modifications.

**RATINGS:**

Input: 100-240 V ac, 0.5-0.25 A, 50/60 Hz  
 Output: 5 thru 24 V, 22 W maximum or see table for standard output voltage models.

Model	Output
MINT1022-05	5.1 V dc/3.2 A
MINT1022-12	12 V dc/1.83 A
MINT1022-24	24 V dc/0.92 A

- NOTES:
1. Maximum operating ambient temperature 50 °C.
  2. Maximum Operating Relative Humidity 96 %, no condensation.
  3. Storage: -40 to +85 °C. Units should be allowed to warm-up under non-condensing conditions before application of power.

**CERTIFICATION:** All models are Certified to be in compliance with the applicable requirements of UL 60601-1, CSA 22.2 No. 601.1 (L3M1), EN 60601-1 and IEC 60601-1. All models are also in compliance with the RoHS Directive EU 2002/95/EC.

**CLASSIFICATION:** (5.1) Protection against electric shock = Class I  
 (In accordance with sub-clause 5 of IEC 60601-1) (5.2) Degree of protection against electric shock = Signal output or intermediate (5.3) Protection against harmful ingress of water = Ordinary (no protection) (5.5) Have not been evaluated for use in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide. This evaluation is to be made on the end equipment by the OEM. (5.6) Mode of operation = Continuous

**CE SAFETY DECLARATION:** SL Power Electronics Corp. (SLPE) declares under our sole responsibility that all models listed above are in conformity with the applicable requirements of EN 60950-1 following the provisions of the Low Voltage Directive 2006/95/EC.

**GROUNDING:** Protection Class I requires that both PCB Ground trace be bonded to Protective Earth in the end application. Using this PCB Ground trace for the end product's protective earthing terminal is not recommended. A separate dedicated protective earthing point should be used.

**OUTPUT:** The output is not acceptable for direct patient connection without additional isolation. The DC output is SELV under normal and single fault conditions.

**OVERVOLTAGE PROTECTION:** The output is monitored for an overvoltage condition. In some applications where an overvoltage condition could result in a hazard as defined in applicable safety standards, redundant or additional overvoltage protection may be required. Consult factory for details.

**CAUTION:** When performing Dielectric Strength Tests, catastrophic failure of the unit may result if a Dielectric Strength test voltage greater than 1800 V ac is applied between primary and secondary circuits. The components providing isolation from primary to secondary cannot be tested while installed in the power supply without overstressing basic (primary to ground) insulation. All isolating components are individually 100 % tested at 4800 V ac prior to installation.

**ISOLATION:** The creepage distance between primary and ground is 4 mm minimum; between primary and secondary circuits is 8 mm minimum. Secondary to ground creepage is not defined or controlled. The required creepage and clearance distances from primary circuits to ground and secondary circuits must be maintained after installation to preserve the intended safety.

**TEMPERATURES:** The maximum operating temperatures of certain safety components, as defined in the applicable safety standards, must not be exceeded after installation to preserve the intended safety. The output power, ambient air temperature and the availability, amount, direction and/or restriction of airflow influence the temperatures of these components.

**FUSING:** Internal fuse is rated T2.5A/250V. The internal fuse is located in the phase lead only. EN 60601-1 requires that both supply leads (phase and neutral) be protected against overcurrent. Complete overcurrent protection must be provided in the host equipment. Fuse ratings must not exceed that specified for the internal fuse, must meet the requirements of EN 60601-1 and be acceptable for the country in which the host equipment is to be installed.

**WARNING! RISK OF FIRE!** A blown internal fuse is an indication of catastrophic failure of circuit component(s). Repair must be performed by SLPE authorized personnel.






**WARNING! SHOCK HAZARD!** Dangerous voltages are present on some components, printed wiring traces and heatsinks.

### CONNECTIONS

J1 Pin	AC Input
1	Line
4	Neutral

J2 Pin	DC Output
1	Output (+)
2	Output (+)
3	Common
4	Common

T1 Pin (Option)	AC Input
1	Line
2	Neutral

EXPLANATION OF SYMBOLS	
	Alternating Current
	Direct Current
	Attention, Consult Accompanying Documents
	Attention, Dangerous Voltages
	Earth (Ground)

MATING CONNECTORS	
J1,J2	Molex Housing 50-37-5043 Contact 08-70-1040

**CAUTION:** Do not exceed 2.5 A per pin on J2  
 SLPE will not be liable for the safety, reliability or performance of these power supplies if a) any changes, modifications or repairs are carried out by other than authorized agents of SLPE, or b) the installation of the supply is not in accordance with these installation instructions and the applicable UL, CSA, EN/IEC safety standards.