



SL Power Electronics, Corp.
6050 King Dr. Bldg. A
VENTURA, CA 93003 + 805-486-4565

INSTALLATION INSTRUCTIONS MINT1065B SINGLE OUTPUT SERIES



MODEL NUMBERS: MINT1065BVWXYZ Series. Sample Model # is MINT1065B1275C01 which breaks down as follows:

MINT 1 065 A 12 75 C 01
1 2 3 4 5 6 7 8

- 1 – Medical Internal Model # Prefix
- 2 – Signifies # of outputs: i.e. 1, 2, 3, 4, etc.
- 3 – Output Wattage: 065 is 65W
- 4 – Signifies Generational Differences such as Class I, ClassII or Energy Star level changes. May be any Letter A-Z. Where “A” represents Class I Power Supplies and “B” represents Class II Power Supplies.
- 5 – Output Voltage: Numeric indicator from 12 to 48. i.e. 12 = 12Vdc
- 6 – Output Connector options. 75 = 4 pin Tyco/AMP MTA156 or equivalent
- 7 – Input Connector options. C = 2 pin Tyco/Amp MTA156 or equivalent.
- 8 – Configuration: 01=Standard. 02-99 for modifications.

Unit is RoHS Compliant.

RATINGS

Input: 100-240 VAC, 1.3 A, 50-60 Hz (Korea input is 110V~, 1.27A)

Output: 12Vdc to 48Vdc at 5.25A to 1.35A.

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MINT1065B BASE MODELS AND RATINGS					
Model	Watts	Output	Model	Watts	Output
MINT1065B 12	63	12V/5.25A	MINT1065B 24	65	24V/2.7A
MINT1065B 15	65	15V/4.33A	MINT1065B 48	65	48V/1.35A
MINT1065B 18	63	18V/3.5A			

Notes:

- 1. Maximum operating ambient is 40°C.
- 2. Maximum Relative Humidity 96%, no condensation.

CERTIFICATION: All models are certified to be in compliance with the applicable requirements of UL/CSA/EN/IEC 60601-1.

CLASSIFICATION:

- (5.1) Protection against electric shock = Class II
- (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



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 EN60950 following the provisions of the Low Voltage Directive 2006/95/EC.

GROUNDING: Protection Class II requires that the Input remains ungrounded in the end application. .

OUTPUTS: The output must not be connected to Earth ground or to metallic enclosure in the end application. The output has not been evaluated for direct patient connection (consult factory for details). 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 secondary circuits is 8 mm minimum. The required creepage and clearance distances from primary circuits to secondary circuits must be maintained after installation to preserve the intended safety. This may require the use of plastic attaching hardware and standoffs in the end application. The use of an insulator between the PWB Bottom and a metal chassis should be considered.






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.

OVERCURRENT PROTECTION: The MINT1065B series has dual internal fusing as required by IEC/EN/UL 60601-1.

WARNING! RISK OF FIRE! A blown internal fuse is an indication of catastrophic failure of circuit component(s). Refer to fuse marking on the supply for rating. Repair must be performed by SLPE authorized personnel.

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

CONNECTIONS

EXPLANATION OF SYMBOLS	
	Alternating Current
	Direct Current
	Attention, Consult Accompanying Documents
	Attention, Dangerous Voltages
	Class II

J1 Pin	AC Input	J2 Pin	DC Output
1	Line	1	Output #1 (+)
3	Neutral	2	Output #1 (+)
		3	Return
		4	Return

RECOMMENDED MATING CONNECTORS	
J1	AMP 640250-3 (center pin not used)
J2	AMP 640250-4

CAUTION

Do not exceed 5 Amps per contact

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, and EN/IEC safety standards.