

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) **CB SCHEME**

SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE CERTIFICAT D'ESSAI OC

Product

Produit

Name and address of the applicant Nom et adresse du demandeur

Name and address of the manufacturer Nom et adresse du fabricant

Name and address of the factory Nom et adresse de l'usine

Rating and principal characteristics Valeurs nominales et caractéristiques principales

Trade mark (if any) Marque de fabrique (si elle existe)

Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur

Model/type Ref. Ref. de type

Additional information (if necessary) Information complémentaire (si nécessaire)

A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la

as shown in the Test Report Ref. No. which form part of this certificate comme indiqué dans le Rapport d'essais numéro de référence qui constitue une partie de ce

Switching power supply unit (AC-DC Switching Power Supplies)

SL Power Electronics, Corp. 6050 King Drive Bldg A Ventura CA 93003, USA

SL Power Electronics, Corp., 6050 King Drive Bldg A, Ventura CA 93003, USA

SL Power Electronics (Xianghe) Corp., Developing Zone, Anping Economic & Technical, Hebei, 065402 Xianghe, PEOPLE'S REPUBLIC OF CHINA

Rated Input: Rated Output: 100-240 V~, 50-60 Hz, 1.3 A Model dependent, see attachment

Protection Class:

I or II (model dependent)

See attachment for further information.

SL Power

SMT

MINT1065DX75KZ Series (Class I type), MINT1065DX75CZ Series (Class II type) and MINT1065CX75KZ Series (Class I type).

IEC 60601-1:2005

095-1101815101-100

This CB Test Certificate is issued by the National Certification Body Ce Certificat d'essai OC est établi par l'Organisme National de Certification

Date.

2011-10-10 CB 11 09 59743 057

A. C. Young-Taylor

TÜV SÜD Product Service GmbH · Certification Body · Ridlerstrasse 65 · D-80339 München



Product Service

Output ratings:					
Model No.	DC Output voltage (V)	Output current (A)	Model No.	DC Output voltage (V)	Output current (A)
MINT1065D1275K01, MINT1065D1275C01	12	5.25	MINT1065D4875K01, MINT1065D4875C01	48	1.35
MINT1065D1575K01, MINT1065D1575C01	15	4.33	MINT1065D2475K01, MINT1065D2475C01	24	2.7
MINT1065D1875K01, MINT1065D1875C01	18	3.5	MINT1065C1875K01	18	2.67
MINT1065C1275K01	12	4.0	MINT1065C2475K01	24	2.0
MINT1065C1575K01	15	3.2	MINT1065C4875K01	48	1.0

Summary of testing:

All applicable tests comply with the requirements except for the following:

- 1) The risk management requirements of the standard were not addressed (refer to IECEE Medical Electrical Equipment Task Force guidelines) and must be considered at end use.
- EMC requirement must be addressed at end use.

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ECONDOR

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

INSTALLATION INSTRUCTIONS MINT1065 Class I SINGLE OUTPUT SERIES

MODEL NUMBERS: MINT1065WX75YZ Series. Sample Model # is MINT1065D1275K01 which breaks down as follows:

MINT 1 065 D 12 75 K 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 65 W
- 4 Model Configuration: May be any Letter A-Z. D = EN 60601-1 3rd Edition Certified, C = Chassis/cover provided (Class 1 only).
- 5 Output Voltage: Numeric indicator from 12 to 48. i.e. 12 = 12 Vdc
- 6 Output Connector options: 75 = 4 pin Tyco/AMP MTA156 or equivalent
- 7 Input Connector options: K = Class I, 2 pin Tyco/Amp MTA156 or equivalent and FastOn tab for Ground.
- 8 Configuration: 01=Standard. 02-99 for modifications.

Unit is RoHS Compliant.

RATINGS

Input: 100-240 Vac, 1.3 A, 50-60 Hz

Output: 12 Vdc to 48 Vdc at 5.25 A to 1.0 A, or see below for standard output voltages.

Model	Watts	Output
MINT1065D1275K01	63	12 V/5.25 A
MINT1065D1575K01	65	15 V/4.33 A
MINT1065D1875K01	63	18 V/3.5 A
MINT1065D2475K01	65	24 V/2.7 A
MINT1065D4875K01	65	48 V/1.35 A

Model	Watts	Output
MINT1065C1275K01	48	12 V/4 A
MINT1065C1575K01	48	15 V/3.2 A
MINT1065C1875K01	48	18 V/2.67 A
MINT1065C2475K01	48	24 V/2 A
MINT1065C4875K01	48	48 V/1 A

Notes:

- 1. Maximum operating ambient is 40 °C.
- 2. Maximum Relative Humidity 96 %, no condensation.
- 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 ANSI AAMI ES 60601-1-2005, CSA C22.2 No. 60601-1-08, and EN/IEC 60601-1, 3rd Edition.

CLASSIFICATION:

(In accordance with subclause 6 of IEC 60601-1)

- (6.2) Protection against electric shock = Class I
- (6.3) Protection against harmful ingress of water or particulate matter = IPX0
- (6.4) Method(s) of sterilization = Not applicable, to be evaluated in the end-product.
- (6.5) 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.
- (6.6) Mode of operation = Continuous

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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 EN60950-1 following the provisions of the Low Voltage Directive 2006/95/EC.

GROUNDING: The Protective Earth (ground) terminal must be bonded to Protective Earth in the host equipment. Using the Protective Earth terminal on the supply for grounding the host equipment is not recommended. A separate dedicated grounding point should be used.

OUTPUT: The output is not acceptable for patient connection without additional isolation. The DC output is less than 42.4 Vpk or 60 Vdc under normal and single fault conditions and meets the Touch Current limits for Operator Accessible Part.

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 / MEANS OF PROTECTION (MOP): The creepage distance between primary and ground is 4 mm minimum (1 MOOP); between primary and secondary circuits is 8 mm minimum (2 MOOP). Secondary to ground creepage is not defined or controlled. The output common is bypassed to ground using a 1000 pF 400V Y2 Type capacitor. 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.

OVERCURRENT PROTECTION: The MINT1065 series have dual internal fusing as required by ANSI AAMI ES/CSA/EN/IEC 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

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

CONNECTIONS

JI Pin	AC Input	J2 Pin	DC Output
I	Line	I	Output #1 (+)
3	Neutral	2	Output #1 (+)
		3	Return
ast-on	Tab: Ground	4	Return
RECO	MMENDED N	AATING O	CONNECTORS
JI AM	P 640250-3 (ce	enter pin n	ot used)
	P 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 ANSI AAMI ES, CSA and EN/IEC safety standards.

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SL Power Electronics, Corp.. 6050 King Dr. Bldg. A VENTURA, CA 93003 + 805-486-4565 Internet: www.slpower.com

INSTALLATION INSTRUCTIONS MINT1065 Class II SINGLE OUTPUT SERIES

MODEL NUMBERS: MINT1065WX75YZ Series. Sample Model # is MINT1065D1275C01 which breaks down as follows:

MINT	1	065	D	12	75	C	0.1
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 65 W
- 4- Model Configuration: May be any Letter A-Z. $D=EN\ 60601-1\ 3^{rd}$ Edition Certified.
- 5 Output Voltage: Numeric indicator from 12 to 48. i.e. 12 = 12 Vdc
- 6 Output Connector options: 75 = 4 pin Tyco/AMP MTA156 or equivalent
- 7 Input Connector options: C = Class II, 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

Output: 12 Vdc to 48 Vdc at 5.25 A to 1.35 A, or see below for standard output voltages.

Model	Watts	Output
MINT1065D1275C01	63	12 V/5.25 A
MINT1065D1575C01	65	15 V/4.33 A
MINT1065D1875C01	63	18 V/3.5 A
MINT1065D2475C01	65	24 V/2.7 A
MINT1065D4875D01	65	48 V/1.35 A

- 1. Maximum operating ambient is 40 °C.
- . Maximum 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 ANSI AAMI ES 60601-1-2005, CSA C22.2 No. 60601-1-08, and EN/IEC 60601-1, 3rd Edition.

CLASSIFICATION:

- (6.2) Protection against electric shock = Class II
- (In accordance with sub-
- (6.3) Protection against harmful ingress of water or particulate matter = IPX0
- clause 6 of IEC 60601-1)
- (6.4) Method(s) of sterilization = Not applicable, to be evaluated in the end-product.
- (6.5) 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.
- (6.6) Mode of operation = Continuous

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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 EN60950-1 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.

OUTPUT: The output is not acceptable for patient connection without additional isolation. The DC output is less than 42.4 Vpk or 60 Vdc under normal and single fault conditions and meets the Touch Current limits for Operator Accessible Part.

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. All isolating components are individually 100 % tested at 4800 V ac prior to installation.

ISOLATION / MEANS OF PROTECTION (MOP): The creepage distance between primary and ground is 4 mm minimum (1 MOOP); between primary and secondary circuits is 8 mm minimum (2 MOOP). 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 MINT1065 series have dual internal fusing as required by ANSI AAMI ES/CSA/EN/IEC 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.

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

CONNECTIONS

J1 Pin	AC Input	J2 Pin	DC Output
1	Line	1	Output #1 (+)
3	Neutral	2	Output #1 (+)
		3	Return
		4	Return
RECO	MMENDED N	MATING (CONNECTORS
JI AM	P 640250-3 (c	enter pin n	ot 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 ANSI AAMI ES, CSA and EN/IEC safety standards.

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