



Ref. Certif. No.

JP-25467-M1-UL

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

CB TEST CERTIFICATE

Product	Switching Power supply
Name and address of the applicant	TDK-LAMBDA CORP NAGAOKA TECHNICAL CENTER R&D DIV 2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA 940-1195 JAPAN
Name and address of the manufacturer	TDK-LAMBDA CORP NAGAOKA TECHNICAL CENTER R&D DIV 2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA 940-1195 JAPAN
Name and address of the factory	TDK-LAMBDA CORP 2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA-KEN 940-1195 JAPAN
Note: When more than one factory, please report on page 2	<input checked="" type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	AC 100-240 V, 50/60 Hz 9.6 A for model HWS1000-3y 13.5 A for other models Output: See Test Report.
Trademark / Brand (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	HWS1000-xy (x = 3, 5, 6, 7, 12, 15, 24, 36, 48, 60. y = /CO, /HD, or blank) HWS1000-24/Ry, HWS1000-24/RyCO, HWS1000-24/RyHD
Additional information (if necessary may also be reported on page 2)	The report was revised to include technical modifications. Additionally evaluated to: EN IEC 62368-1:2020/A11:2020. National Differences specified in the CB Test Report. <input checked="" type="checkbox"/> Additional Information on page 2-3
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2018
As shown in the Test Report Ref. No. which forms part of this Certificate	E122103-A6149-CB-1 issued on 2024-03-07

This CB Test Certificate is issued by the National Certification Body



- UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL Solutions (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2024-03-08
Original Issue Date: 2021-09-17

Signature: Masamichi Takagi



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Factory(ies):

TDK-LAMBDA MALAYSIA SDN BHD
PLO33 KAWASAN PERINDUSTRIAN SENAI 81400 SENAI JOHOR
MALAYSIA

TDK-LAMBDA MALAYSIA SDN BHD
LOT 2 & 3, BATU 9 3/4
KAWASAN PERINDUSTRIAN BANDAR BARU JAYA GADING 26070 KUANTAN PAHANG
MALAYSIA

TDK-LAMBDA (CHINA) ELECTRONICS CO LTD
NO.95,ZHUJIANG RD, XINWU DISTRICT WUXI JIANGSU 214028
CHINA

ZHANGJIAGANG HUA YANG ELECTRONICS CO LTD
NO.15 TONGXIN RD, ZHAOFENG ECONOMIC DEVELOPMENT ZONE, LEYU TOWN
ZHANGJIAGANG JIANGSU 215622
CHINA

ALPS LOGISTICS FACILITIES CO LTD
593-1 NISHIOHASHI TSUKUBA-SHI IBARAKI-KEN 305-0831
JAPAN

SENDAN ELECTRONICS MFG CO LTD
1010 HABUSHIN NANTO-SHI TOYAMA-KEN 939-1756
JAPAN

Summary of Modifications:

- Addition of Japan National Differences and China National Differences.
- Update of U.S.A. and CANADA National Differences.
- Addition of Alternate X-Capacitor/ C1, C2, C20, Panasonic Industry Co., Ltd., type ECQUA, Xiamen Faratronic Co., Ltd., type MKP62 and Europronic (Suzhou) Co., Ltd., type MPX2.
- Addition of Alternate Y-Capacitor/ C14, C16, C18, C19, C209, Murata Mfg Co., Ltd., type RA-Series.
- Addition of Alternate Varistor/ SA2, TDK Electronics GmbH & Co OG, type SIOVS10K300E2K1 and Thinking Electronic Industrial Co., Ltd., type TVR10471-V.
- Addition of Alternate Optical Isolator/ PC700, PC701, PC702, PC703, PC704, PC705, PC706, PC707, Toshiba Electronic Devices & Storage Corporation, type TLP785F.
- Addition of Lead Wire of Fan, Proterial, Ltd., type 3385 and Manufacturer: Interchangeable, type: Interchangeable. (no construction changes, only for clarification)
- Addition of Tube on Lead Wires of FAN, Iwase Kagaku Kogyo Co., Ltd., type AH-6. (no construction changes, only for clarification)
- Addition of Lead Wires of Harness (1), Proterial, Ltd., type 1015 and Manufacturer: Interchangeable, type: Interchangeable. (no construction changes, only for clarification)
- Addition of Tube on Harness (1), Iwase Kagaku Kogyo Co., Ltd., type AH-6. (no construction changes, only for clarification)

Additional information (if necessary)



- UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
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Summary of Modifications:

- Addition of Lead Wires of Harness (4), Proterial, Ltd., type 1007 and Manufacturer: Interchangeable, type: Interchangeable. (no construction changes, only for clarification)
- Addition of Tube for Q1, Q2, Q3, D4, Sumitomo Electric Fine Polymer Inc, type 807 (IRRAXTUBE V2) and Nikkan Industries Co., Ltd., S-693-600. (no construction changes, only for clarification)
- Addition of Tube for Q201, Q203, Nikkan Industries Co., Ltd., S-693-600. (no construction changes, only for clarification)
- Update of manufacturer name, model name, standard and/or Mark of conformity of some components of table 4.1.2.

Additional information (if necessary)



- UL Solutions (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL Solutions (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL Solutions (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
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