



Ref. Certif. No.

JP-20463-M3-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 for details. |
| Trademark / Brand (if any) | TDK-Lambda |
| 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 62368-1:2014/A11:2017. National Differences specified in the CB Test Report. <input checked="" type="checkbox"/> Additional Information on page 2 |
| A sample of the product was tested and found to be in conformity with | IEC 62368-1:2014 |
| As shown in the Test Report Ref. No. which forms part of this Certificate | E122103-A6005-CB-1 issued on 2024-03-12 |

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: 2024-03-12
Original Issue Date: 2018-10-31

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 Alternate X-Capacitor/ C1, C2, C20, Panasonic Industry Co., Ltd., type ECQUA, Xiamen Faratronic Co., Ltd., type MKP62 and Eurotronic (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 TLP781F or TLP785F.
- Addition of Coating for PWB (Option), Dow Silicones Corp, type 1-2577, 1-2577 Low, Humiseal, Div. Of Chase Corp., type 1B59LU and Manufacturer: Interchangeable, type: Interchangeable. (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 Pflugsten 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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