



Ref. Certif. No.

JP-20793-M2-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	ALPS LOGISTICS FACILITIES CO LTD 593-1 NISHIOHASHI TSUKUBA-SHI IBARAKI-KEN 305-0831 JAPAN <input checked="" type="checkbox"/> Additional Information on page 2
Note: <i>When more than one factory, please report on page 2</i>	
Ratings and principal characteristics	See Page 2
Trademark / Brand (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	See Page 2
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 3
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-A6059-CB-1 issued on 2023-07-04

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: 2023-07-05
Original Issue Date: 2019-03-27

Signature:
Masamichi Takagi



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Factory(ies):

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

TDK-LAMBDA CORP
2704-1 SETTAYA-MACHI NAGAOKA-SHI NIIGATA-KEN 940-1195
JAPAN

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

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

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

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

Model Detail(s):

HWS30A-3, HWS30A-5, HWS30A-12, HWS30A-15, HWS30A-24, HWS30A-48.
Maybe followed by optional suffix "abcde" (a is "/", b is "HD", c is "A", d is "FG", e is "DIN"; "a", "b", "c", "d", "e" may be blank)

HWS30A-3/B200V, HWS30A-5/B200V, HWS30A-12/B200V, HWS30A-15/B200V, HWS30A-24/B200V, HWS30A-48/B200V.
Maybe followed by optional suffix "bde" (b is "HD", d is "FG", e is "DIN"; "b", "d", "e" may be blank)

Ratings:

Input:
AC100-240 V, 50-60 Hz,
0.5 A (for model HWS30A-3) and
0.7 A (for all models except for HWS30A-3)

AC200-240V, 50-60 Hz,
0.35 A (for model HWS30A-3/B200V) and
0.45 A (for models HWS30A-5/B200V, HWS30A-12/B200V, HWS30A-15/B200V, HWS30A-24/B200V, and HWS30A-48/B200V)

Additional information (if necessary)



- UL Solutions (US), 333 Pflingsten 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 Alternate X-Capacitor (C1), TDK (Zhuhai FTZ) Co., Ltd., type B3293 and B3292.
- Addition of Alternate X-Capacitor (C1), OKAYA ELECTRIC INDUSTRIES CO LTD, type LE Series.
- Addition of Alternate Y-Capacitors (C2, C3) and Alternate Y-Capacitor (C4), TDK corporation, type CD and MURATA MFG CO LTD, type RA-Series.
- Addition of Alternate NTC Thermistor (TH1), Thinking Electronic Industrial Co., Ltd., type SCK-081 (SCK08102).
- Addition of Alternate IPD (A1), Manufacture: Interchangeable, Type: Interchangeable.
- Addition of Insulation tape of Transformer (T1) for Topical adhesive used for fixation of Transformer (T1) and Resistor (R51) [for HWS30A-24, HWS30A-24/B200V, HWS30A-15, HWS30A-15/B200V, HWS30A-48 and HWS30A-48/B200V with type of PWB, PZA-082x (x=D to Z)], 3M Company Electrical Markets Div. (EMD), type 1351-1 and Teraoka Seisakusho Co., Ltd., type 630F #25.
- Addition of Alternate Optical Isolators (PC101, PC102), Toshiba Electronic Devices & Storage Corporation, type TLP781F and TLP785F.
- Correction of technical data of Diode (D51) (for HWS30A-24 and HWS30A-24/B200V) to "minimum 10 A" from "minimum 20A".
- Addition of Alternate Coating on PWB (for models with suffix "/HD"), HUMISEAL, DIV OF CHASE CORP, type 1B59LU.
- Addition of Alternate Coating on PWB (for models with suffix "/HD"), Manufacture: Interchangeable, Type: Interchangeable.
- Addition of Topical adhesive used for fixation of Transformer (T1) and Resistor (R51) [for HWS30A-24, HWS30A-24/B200V, HWS30A-15, HWS30A-15/B200V, HWS30A-48 and HWS30A-48/B200V with type of PWB PZA-082x (x=D to Z)], Momentive Performance Materials LLC, type TSE3940.
- Update of AUSTRALIA/NEW ZEALAND DIFFERENCES.
- Addition of Alternate construction (See Enclosure ID 03-14, ID 03-15 ID 05-05 and ID 05-06)
- Update of some information in Table 4.1.2.

Additional information (if necessary)



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- 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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