



Ref. Certif. No.

**JP-20765-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	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	See Page 2
Trademark / Brand (if any)	<b>TDK-Lambda</b>
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	HWS1800T-3, HWS1800T-5, HWS1800T-6, HWS1800T-7, HWS1800T-12, HWS1800T-15, HWS1800T-24, HWS1800T-36, HWS1800T-48, and HWS1800T-60 May be followed by suffix /CO, /HD or /SB.
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 & 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-A6038-CB-1 issued on 2023-05-25

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](http://www.ul.com/ncbnames)

Date: 2023-05-26  
Original Issue Date: 2019-03-15

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

**Ratings:**

Input:  
3 Phase, 200-240 VAC, 50/60 Hz  
4.5 A for model HWS1800T-3  
6.0 A for models HWS1800T-5, HWS1800T-6, HWS1800T-7, HWS1800T-12, HWS1800T-15  
7.0 A for models HWS1800T-24, HWS1800T-36, HWS1800T-48, HWS1800T-60  
Output: Refer to General Product Information in test report

**Summary of Modifications:**

- Addition of alternate coating for PWB only for models with suffix "/CO" and suffix "/HD", Humiseal Div Of Chase Corp, type 1B59LU and "interchangeable"
- Addition of alternate X-capacitors (C1, C2, C3), (C28, C29), Okaya Electric Industries, type LE\* and Panasonic Industry, type ECQUA
- Addition of alternate varistor (SA1), Panasonic Industry, type 14471U and Thinking Electronic Industrial, type TVR14471-V
- Addition of alternate Y-capacitors (C17, C18, C19), (C23, C24, C25), (C16), (C14), (C209) TDK Corp, type CD and Murata Mfg, type RA series
- Addition of alternate inductor (L15, L16, L17), Tohsei Industrial, type ALS050043 with associated illustration (ID: 04 -20)
- Addition of alternate core case of inductor (L2), Polyplastics, type 3095M
- Addition of thermostat (TH201) for model HWS1800T-5, TOKIN Corp., type OHD5R-95B

**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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- Deletion of alternate thermostat (TH201) for model HWS1800T-5, NEC Tokin Corp., type OHD5R-90B
- Correction of "Manufacturer name" of Fan guard (optional), changed from previous registered name to present name: Mitsubishi Chemical Corporation
- Correction of "Manufacturer name" of coating for PWB only for models with suffix "/CO" and suffix "/HD", changed from previous registered name to present name: Dow Toray Co., Ltd.
- Correction of "Manufacturer name" of alternate coating for PWB only for models with suffix "/CO" and suffix "/HD", changed from previous registered name to present name: Dow Silicones Corp.
- Correction of "Technical data" for alternate X-capacitors (C1, C2, C3), (C28, C29), changed from previous registered name to present name: TDK (Zhuhai FTZ) Co., Ltd.
- Correction of "Manufacturer name" of relay (RL1), changed from previous registered name to present name: Panasonic Industry Co., Ltd.
- Correction of "Manufacturer name" of core case of inductor (L2), changed from previous registered name to present name: Polyplastics Co., Ltd.
- Correction of "Manufacturer name" of alternate insulation tape of transformer (T700), changed from previous registered name to present name: 3M Company
- Move 5 rows ("Model HWS1800T-12", "Cover/Chassis", "Fan", "Fan Lead Wires" and "Fan Lead Wires Connector") to top of the table list.

**Additional information (if necessary)**



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