

JP-14367-A1-UL

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

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 NISHIOOHASHI TSUKUBA-SHI IBARAKI-KEN 305-0831 Note: When more than one factory, please report on page 2

JAPAN

Additional Information on page 2

Ratings and principal characteristics Input:

100-240 Vac, 50-60 Hz, 0.5 A (for model HWS50A-3),

0.7 A (for all models except for model HWS50A-3)

Trademark (if any)

TDK·Lambda

Type of Customer's Testing Facility (CTF) Stage used

Model / Type Ref. HWS50A-3, HWS50A-5, HWS50A-12, HWS50A-15,

HWS50A-24, HWS50A-48

Maybe followed by suffix "abcde" (a is "/" or blank, b is "HD" or blank, c is "R" or blank, d is "A", "B", "AB" or blank, and e is "FG",

"DIN" or blank)

Additional information (if necessary may also be

reported on page 2)

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

4788651190 issued on 2018-09-18

This CB Test Certificate is issued by the National Certification Body



UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK

UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

Date: 2018-09-20 Original Issue Date: 2017-06-30 Signature:

 \boxtimes

M. Takayi Masamichi Takagi

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



JP-14367-A1-UL

Factories:

ZHANGJIAGANG HUA YANG ELECTRONICS CO LTD

TONGXIN RD ZHAOFENG ECONOMIC DEVELOPMENT ZONE LEYU TOWN ZHANGJIAGANG JIANGSU 215622

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 MALAYSIA

TDK-LAMBDA MALAYSIA SDN BHD

PLO33 KAWASAN PERINDUSTRIAN SENAI 81400 SENAI

MALAYSIA

WUXI TDK-LAMBDA ELECTRONICS CO LTD

NO 6 XING CHUANG ER LU WUXI JIANGSU 214028

CHINA

Additional Information:

The original report was modified to include the following changes/additions:

- Addition of Alternate X-Capacitor (C1, C4); Okaya Electric Industries Co., Ltd. Type LE-MX.
- Addition of Alternate Inductor (L3); TDK-Lambda Corp. Type A24702x (x = A to Z, or blank).
- Minor electrical changes for Diode Bridge (D1) and FET (Q1).
- Additional evaluation of: National Differences for IEC 62368-1:2014 (AT, AU, NZ, GB), and Group Differences fulfilling the requirements of EN 62368-1:2014 + A11:2017.

Additionally evaluated to IEC 60950-1:2005 (Second Edition) + A1:2009 + A2:2013, EN 60950-1:2006 /A11:2009 /A1:2010 /A12:2011 /A2:2013, IEC 60065:2014 (Eighth Edition) and EN 62368-1:2014 /A11:2017. National Differences specified in the CB Test Report.

Additional information (if necessary)



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK

UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

h. Jakagi

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Signature:

Masamichi Takagi