

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

WUXI TDK-LAMBDA ELECTRONICS CO LTD  
NO 6 XING CHUANG ER LU WUXI JIANGSU 214028  
CHINA

Note: When more than one factory, please report on page 2

 [Additional Information on page 2](#)

Ratings and principal characteristics

Input:  
100-240 Vac, 50-60 Hz, 0.5 A (for Model HWS50A-3) and  
0.7 A (for all models except for Model HWS50A-3)

Trademark (if any)



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

Model / Type Ref.

HWS50A-3, HWS50A-5, HWS50A-12, HWS50A-15,  
HWS50A-24, and HWS50A-48Maybe followed by suffix "abcde" (a is /, b is HD, c is R, d is A, B,  
AB, e is FG, DIN; and "abcde" may be blank)Additional information (if necessary may also be  
reported on page 2)Additionally evaluated to EN 60950-1:2006/ A11:2009/ A1:2010/  
A12:2011/ A2:2013.

National Differences specified in the CB Test Report.

 [Additional Information on page 2](#)A sample of the product was tested and found  
to be in conformity withIEC 60950-1:2005, IEC 60950-1:2005/AMD1:2009,  
IEC 60950-1:2005/AMD2:2013As shown in the Test Report Ref. No. which forms part  
of this Certificate

E122103-A133-CB-2 issued on 2018-09-19

This CB Test Certificate is issued by the National Certification Body



- 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

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2018-09-19

Signature:

Original Issue Date: 2015-06-26

Masamichi Takagi



Ref. Certif. No.

**JP-12439-A1-UL**

**Factories:**

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

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

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

ZHANGJIAGANG HUA YANG ELECTRONICS CO LTD  
TONGXIN RD ZHAOFENG ECONOMIC DEVELOPMENT ZONE LEYU TOWN ZHANGJIAGANG 215622 JIANGSU  
CHINA

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

**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

**Additional information (if necessary)**



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



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