



Ref. Certif. No.

JP-20182-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

[Additional Information on page 2](#)

Ratings and principal characteristics

See Page 2

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

VS50E-xyz
(x = 3, 5, 12, 15, 24, 48. y = / or blank, z = A, L or blank)

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.
 [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-A6002-CB-1 issued on 2022-07-28

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

Date: 2022-07-29
Original Issue Date: 2018-05-31

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

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

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

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

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

Ratings:

Input:

100-120 Vac, 50/60 Hz, 0.9 A (for models of x = 3)
1.1 A (for models of x = 5, 12, 15)
1.3 A (for models of x = 24, 48)

Output:

VS50E-3yz 3.3 Vdc (2.97 – 3.63 V), 10 A, 33.0 W
VS50E-5yz 5 Vdc (4.5 – 5.5 V), 10 A, 50.0 W
VS50E-12yz 12 Vdc (10.8 – 13.2 V), 4.3 A, 51.6 W
VS50E-15yz 15 Vdc (13.5 – 16.5 V), 3.5 A, 52.5 W
VS50E-24yz 24 Vdc (21.6 – 26.4 V), 2.5 A, 60.0 W
VS50E-48yz 48 Vdc (43.2 – 52.8 V), 1.3 A, 62.4 W

Summary of Modifications:

- Correction of technical data of X-capacitor/ C1, OKAYA Electric Industries, type LE and Panasonic Corporation, type ECQUA.
- Correction of type name, technical data and Marks of conformity of Y-capacitor/ C2, C3, C4, TDK Corporation, type CD series.
- Correction of technical data of Y-capacitor/ C2, C3, C4, Murata Mfg. Co., Ltd., type KX.
- Addition of alternate Y-capacitor/ C2, C3, C4, Murata Mfg. Co., Ltd., type RA-Series and RB-Series.
- Addition of alternate Opto-coupler/ PC101, PC102 for PWB PZA-125x (x=A to Z or Blank), Renesas Electronics Corporation, type PS2861B-1 and Everlight Electronics Co., Ltd., type EL3H7.

Additional information (if necessary)



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 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
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