



Ref. Certif. No.

JP-27209-M1-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 (CHINA) ELECTRONICS CO LTD
NO.95, ZHUJIANG RD, XINWU DISTRICT WUXI JIANGSU 214028
CHINA

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

Additional Information on page 2

Ratings and principal characteristics

See Page 2

Trademark / Brand (if any)



Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

ZWS150BAF-abcdefghij
a = 3, 5, 12, 15, 24 or 48
b = "/" or blank
c = "R" or blank
d = "A", "L" or blank
e = "CO2" or blank
f = "FG" or blank
g = "FV" or blank
h = "FGM" or blank
i = "SN" or blank
j = "N" or blank
ZWS150BAF-24/FU

Additional information (if necessary may also be reported on page 2)

The report was revised to include technical modifications. Additionally evaluated to EN IEC 62368-1:2020/ A11:2020. 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 62368-1:2018

As shown in the Test Report Ref. No. which forms part of this Certificate

E122103-A6172-CB-2 issued on 2024-07-03

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: 2024-07-04

Original Issue Date: 2023-08-10

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

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

YOKOTE SEIKO CO., LTD.
1-71 ARAYATORIKIMACHI AKITA-SHI AKITA 010-1633
JAPAN

Ratings:

Input:
Model ZWS150BAF-3bcdefghij:
100-240 Vac, 50/60 Hz, 1.4A
Models ZWS150BAF-5bcdefghij, -12bcdefghij, -15bcdefghij, -24bcdefghij, -48bcdefghij and ZWS150BAF-24/FU
100-240 Vac, 50/60 Hz, 2.0A

Output:
3.3 Vdc, 30A: ZWS150BAF-3bcdefghij (DC 2.64 - 3.63 V, max 30A, max 99.0W)
5 Vdc, 30A: ZWS150BAF-5bcdefghij (DC 4.0 - 5.5 V, max 30A, max 150W)
12 Vdc, 12.5A: ZWS150BAF-12bcdefghij (DC 9.6 - 13.2 V, max 12.5A, max 150W)
15 Vdc, 10A: ZWS150BAF-15bcdefghij (DC 12.0 - 16.5 V, max 10A, max 150W)
24 Vdc, 6.3A: ZWS150BAF-24bcdefghij and ZWS150BAF-24/FU (DC 19.2 - 26.4 V, max 6.3A, max 151.2W)
48 Vdc, 3.2A: ZWS150BAF-48bcdefghij (DC 38.4 - 52.8 V, max 3.2A, max 153.6W)

Summary of Modifications:

- Deletion of Factory, ZHANGJIAGANG HUA YANG ELECTRONICS CO LTD.
- Addition of Japan National Differences and China National Differences.
- Addition of Alternate X-capacitor / C1, C4, Xiamen Faratron Co., Ltd., type MKP62 and Eurotronic (SuZhou) Co., Ltd., type MPX2.
- Correction of type of Varistor, SA1, from TND-12V471K to TND12V-471K due to typo.
- Addition of Alternate Inductor / L3, Tamura Corporation, type TAM25002.
- Correction of Object of Secondary wire of T2 due to typo.
- Addition of Tube for Secondary Internal Wire, Chukoh Chemical Industries Ltd., type 1.
- Addition of Tube for Lead of Q1, D2, Q2, Q3 (Optional), Nikkan Industries Co., Ltd., type S-693-600.
- Update of manufacturer name, model name, standard and/or Mark of conformity of some components of 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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