



Ref. Certif. No.

JP-25461-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 (CHINA) ELECTRONICS CO LTD NO.95, ZHUJIANG RD, XINWU DISTRICT WUXI JIANGSU 214028 CHINA <input checked="" type="checkbox"/> Additional Information on page 2
Note: When more than one factory, please report on page 2	
Ratings and principal characteristics	See Page 2
Trademark / Brand (if any)	TDK-Lambda
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	ZWS50BAF-abcdef a = 3, 5, 12, 15, 24, 48. b = "/" or blank. c = "A", "L" or blank. d = "CO2" or blank. e = "FG" or blank. f = "FV" 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 IEC 62368-1:2020/ A11:2020. National Differences specified in the CB Test Report. <input checked="" type="checkbox"/> 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-A6173-CB-1 issued on 2023-11-16

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: 2023-11-16
Original Issue Date: 2021-09-17

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

Ratings:

Input:
AC100-240V, 50/60Hz, 0.45A (for model ZWS50BAF-3),
0.67A (except for model ZWS50BAF-3)

Output :
DC3.3V, 10A (ZWS50BAF-3) (DC2.64V-3.63V, max. 10A, max. 33.0W)
DC5V, 10A (ZWS50BAF-5) (DC4.0V-5.5V, max. 10A, max. 50.0W)
DC12V, 4.3A (ZWS50BAF-12) (DC9.6V-13.2V, max. 4.3A, max. 51.6W)
DC15V, 3.5A (ZWS50BAF-15) (DC12.0V-16.5V, max. 3.5A, max. 52.5W)
DC24V, 2.1A (ZWS50BAF-24) (DC19.2V-26.4V, max. 2.1A, max. 50.4W)
DC48V, 1.1A (ZWS50BAF-48) (DC38.4V-52.8V, max. 1.1A, max. 52.8W)

Summary of Modifications:

- Deletion of Factory, ZHANGJIAGANG HUA YANG ELECTRONICS CO LTD, NO.15 TONGXIN RD, ZHAOFENG ECONOMIC DEVELOPMENT ZONE, LEYU TOWN ZHANGJIAGANG JIANGSU 215622 CHINA.
- Addition of alternate X-Capacitor (C1), Xiamen Faratronic Co. Ltd., type MKP62 and Europronic (SuZhou) Co. Ltd., type MPX2.
- Addition of alternate X-Capacitor (C4), Xiamen Faratronic Co. Ltd., type MKP62.
- Addition of alternate Bobbin of Inductor (L1, L4), Chang Chun Plastics Co., Ltd., T375HF.
- Update of technical data of Bobbin of Inductor (L1, L4), Wire of Inductor (L5) and Wire of L5.
- Addition of Japan National Differences and China National Differences.
- Update of manufacturer of alternate Varistor (SA1), type S10K300E2K1.
- Update of Standard of Varistor (SA1), type S10K300E2K1, Primary Wire of Transformer (T1), type TEX-E, Optocouplers (PC251, PC252), type PS2861B-1 and TLP291.

Additional information (if necessary)



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