



Ref. Certif. No.

JP-25482-M2-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 <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 (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	ZWS100BAF-abcdefgh a = 3, 5, 12, 15, 24, 36 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
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 3
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-A6171-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: 2021-09-24

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

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

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

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

Ratings:

Input:
AC 100-240V, 50/60Hz,
1.0A (for models with suffix a = 3)
1.3A (other than models with suffix a = 3)

Output:
DC3.3V, 20A ZWS100BAF-3 (DC 2.64V – 3.63V, max. 20A, max. 66.0W)
DC5V, 20A ZWS100BAF-5 (DC 4.0 – 5.5V, max. 20A, max. 100W)
DC12V, 8.5A ZWS100BAF-12 (DC 9.6 – 13.2V, max. 8.5A, max. 102W)
DC15V, 6.7A ZWS100BAF-15 (DC 12.0 – 16.5V, max. 6.7A, max. 100.5W)
DC24V, 4.3A ZWS100BAF-24 (DC 19.2 – 26.4V, max. 4.3A, max. 103.2W)
DC36V, 2.8A ZWS100BAF-36 (DC 32.4 – 39.6V, max. 2.8A, max. 100.8W)
DC48V, 2.1A ZWS100BAF-48 (DC 38.4 – 52.8V, max. 2.1A, max. 100.8W)

Output voltage of parenthesis can be changed with the adjustable variable resistor (VR51) within the range.

Additional information (if necessary)



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Summary of Modifications:

- Correction of technical data of X-capacitor (C1, C4), Okaya, type LE and Panasonic, type ECQUA.
- Correction of technical data of Y-capacitor (C2, C3, C8), Murata, type KX.
- Correction of type name, technical data and Marks of conformity of Y-capacitor (C2, C3, C8), TDK Corporation, type CD series.
- Addition of alternate Y-capacitor (C2, C3, C8), Murata Mfg. Co., Ltd., type RA-Series and RB-Series.
- Addition of alternate Thermistor (TH1), THINKING ELECTRONIC INDUSTRIAL CO LTD, type SCK-102.
- Addition of alternate Opto-coupler/ PC101, PC102, PC103 (PC103: optional), Everlight Electronics Co., Ltd., type EL3H7.


Additional information (if necessary)



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