



Ref. Certif. No.

**JP-25845-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 (if any)



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)

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-A6240-CB-1 issued on 2022-01-30

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: 2022-01-31

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

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

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

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)

**Additional information (if necessary)**



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*M. Takagi*  
Masamichi Takagi