

# DEMKO CERTIFICATE

**Certificate No.** D-06542-M1  
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**Date of Issue** 2018-05-08

**Certificate Holder** TDK-LAMBDA CORP  
NAGAOKA TECHNICAL CENTER  
R&D DIV  
2704-1 SETTAYA-MACHI  
NAGAOKA-SHI, 940-1195 NIIGATA Japan

**Manufacturer** TDK-LAMBDA CORP  
NAGAOKA TECHNICAL CENTER  
R&D DIV  
2704-1 SETTAYA-MACHI  
NAGAOKA-SHI, 940-1195 NIIGATA Japan

**Production site** ALPS LOGISTICS FACILITIES CO LTD  
593-1 NISHIOHASHI  
TSUKUBA-SHI, 305-0831 IBARAKI-KEN Japan

See Page 2

**Certified Product Model** Switching Power Supply  
ZWS50BAF-abcdef  
See Page 2

**Trademark**

***TDK-Lambda***

**Rated Voltage / Frequency** See Page 2

**Rated Current / Power** See Page 2

**Insulation Class** Class I

**Degree of protection (IP)** IPX0

**Tested acc. to** EN 62368-1:2014/A11:2017, EN 62368-1:2014

**Test Report No.** 4788049709-1 issued on 2018-04-26, 4788049709 issued on 2018-04-18

**Additional** See Page 2

**Expire date** 2028-04-27

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**Certification Manager**  
Jan-Erik Storgaard

This is to certify that representative sample(s) of the Product described herein ("Certified Product") have been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the D Mark Requirements. The Designated Certificate holder is entitled to use the d or for cables <DEMKO> for the Certified Product manufactured at the production site(s) identified above, in accordance with the D Mark Service Agreement, including without limitation the D Mark Testing and Certification Services Service Terms. Only those Products bearing the D Mark should be considered as being covered by UL's D Mark Service. This Certificate shall remain valid through the expiration date, unless terminated earlier in accordance with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior to the expiration date.

**Certification Body**

UL International Demko A/S, Borupvang 5A, DK-2750  
Ballerup, Denmark, Tel. +45 44 85 65 65,  
info.dk@ul.com  
www.ul-europe.com



# Appendix DEMKO CERTIFICATE

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**Model Details:**

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.

**Production Sites:**

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

TDK-LAMBDA MALAYSIA SDN BHD  
PLO33 KAWASAN PERINDUSTRIAN SENAI  
SENAI, 81400 JOHOR Malaysia

TDK-LAMBDA MALAYSIA SDN BHD  
LOT 2 & 3, BATU 9 3/4  
KAWASAN PERINDUSTRIAN  
BANDAR BARU JAYA GADING  
KUANTAN, 26070 PAHANG Malaysia

Wuxi TDK-Lambda Electronics Co Ltd  
NO 6  
XING CHUANG ER LU  
WUXI, 214028 JIANGSU China

ZHANGJIAGANG HUA YANG ELECTRONICS CO LTD  
TONGXIN RD  
ZHAOFENG ECONOMIC DEVELOPMENT ZONE  
LEYU TOWN  
ZHANGJIAGANG, 215622 JIANGSU China

**Rated Details:**

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:**

This certificate replaces the earlier issued D-Mark No. D-06542 issued on 2018-04-28 due to correction of expire date.

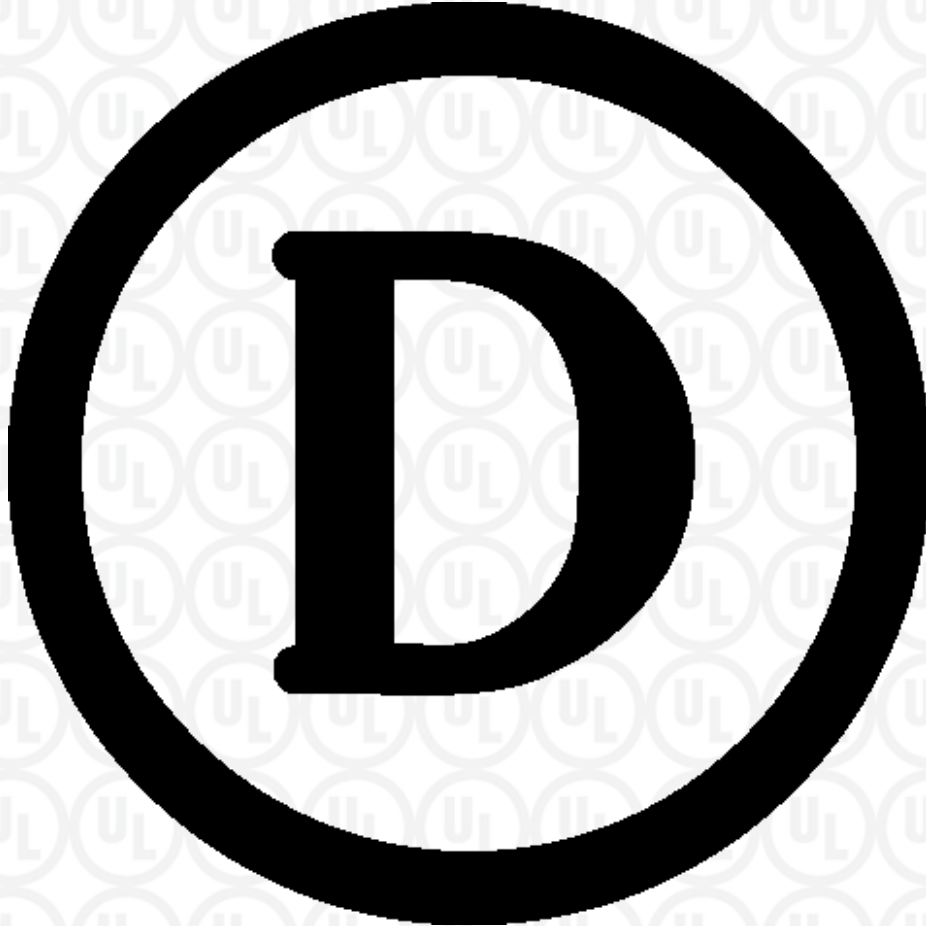
**Certification Body**

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