

# DEMKO CERTIFICATE

**Certificate No.** D-06726-A2  
**Page** 1/4  
**Date of Issue** 2020-11-20

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

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

**Production site** TDK-LAMBDA (CHINA) ELECTRONICS CO LTD  
NO.95,ZHUJIANG RD, XINWU DISTRICT WUXI JIANGSU 214028  
CHINA

See Page 2

**Certified Product Model** Switching Power Supply  
ZWS15B-abcdef  
**Trademark** See Page 2

**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.**

4789716513 issued on 2020-11-12

**Additional**

The report was revised to include administrative modifications.

**Expire date**

2028-07-30

**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. As specified in the respective appendix below the Designated Certificate holder is entitled to use the D-Mark, or its alternative for cables, 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with the Service Agreement including without limitation if the Standard identified on this Certificate is amended or withdrawn prior the expiration date.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.com



# Appendix DEMKO CERTIFICATE

**Certificate No.** D-06726-A2  
**Page** 2/4  
**Date of Issue** 2020-11-20

**Model Details:**

ZWS15B-abcdef a = 3, 5, 12, 15, 24. b = "/" or blank. c = "A", "L" or blank. d = "CO2" or blank. e = "FG" or blank. f = "FV" or blank.

**Production Sites:**

TDK-LAMBDA MALAYSIA SDN BHD

LOT 2 & 3, BATU 9 3/4 KAWASAN PERINDUSTRIAN BANDAR BARU JAYA GADING 26070 KUANTAN PAHANG MALAYSIA

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

TDK-LAMBDA CORP

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

TDK-LAMBDA MALAYSIA SDN BHD

PLO33 KAWASAN PERINDUSTRIAN SENAI 81400 SENAI JOHOR MALAYSIA

SENDAN ELECTRONICS MFG CO LTD

1010 HABUSHIN NANTO-SHI TOYAMA-KEN 939-1756 JAPAN

**Ratings:**

Input: AC100-240V, 50/60Hz,

0.3A (for model ZWS15B-3),

0.4A (except for model ZWS15B-3)

Output :

ZWS15B-3bcdef: 2.97-3.63Vdc, Maximum 3A, Maximum 9.9W

ZWS15B-5bcdef: 4.5-5.5Vdc, Maximum 3A, Maximum 15W

ZWS15B-12bcdef: 10.8-13.2Vdc, Maximum 1.3A; Maximum 15.6W

ZWS15B-15bcdef: 13.5-16.5Vdc, Maximum 1A; Maximum 15W

ZWS15B-24bcdef: 21.6-26.4Vdc, Maximum 0.7A; Maximum 16.8W

**Additional Information:**

Additionally evaluated to EN 50178:1997.

**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.com



# Appendix DEMKO CERTIFICATE

**Certificate No.** D-06726-A2  
**Page** 3/4  
**Date of Issue** 2020-11-20

This certificate replaces the certificate No. D-06726-M1, issued on 2020-04-07 due to  
- Addition of factory as below:  
SENDAN ELECTRONICS MFG CO LTD  
1010 HABUSHIN NANTO-SHI TOYAMA-KEN 939-1756 JAPAN

---

**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.com





# Appendix DEMKO CERTIFICATE

**Certificate No.** D-06726-A2  
**Page** 4/4  
**Date of Issue** 2020-11-20

## **Certification Mark D-Mark**

The D-Mark, as displayed below, shall appear on certified products only. Minimum size is not specified, as long as the Mark is legible.



The size of the Mark may be reduced or enlarged on the condition that it remains readable and that the proportions of width and height are kept. The use of dark text for the D-Mark on light backgrounds and light text on dark backgrounds is permitted.

When putting the product on the EU market, the manufacturer's name, trademark or mark of origin must be affixed in a clearly visible location and position on the product, on the package and in the user manual. It can be affixed by label, be directly imprinted, or cast or molded into the product.

## **Alternate certification Mark for cables**

As an alternative to the D-Mark specified above the alternate D-Mark, displayed below, can appear on certified cables only. Minimum size is not specified, as long as the mark is legible.

◁DEMKO▷

The alternate D-Mark may be cast, stamped or moulded into the cable and continue throughout the length of the cable as specified in the applicable cable standard.

All content shall be in accordance with the details provided on this D-Mark Certificate.

---

**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.com

