



Ref. Certif. No.

**JP-20126-M2-UL**

**IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME**

**CB TEST CERTIFICATE**

Product	Built-In 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
Note: When more than one factory, please report on page 2	<input checked="" type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	Input: 100-240VAC, 50-60Hz, 2.6A Output: (See test report for more details.)
Trademark (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	ZWS150BP-abcdef (a = 24, 36, 48, b = "/" or blank, c = "R" or blank, d = "A", "L" or blank, e = "CO2" or blank, f = "FG" or blank)
Additional information (if necessary may also be reported on page 2)	(Technical Modification) Additionally evaluated to EN 62368-1:2014/ A11:2017. 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 62368-1:2014
As shown in the Test Report Ref. No. which forms part of this Certificate	4789905166-1 issued on 2021-06-18

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: 2021-06-25  
Original Issue Date: 2018-05-18

Signature:  
Masamichi Takagi



Ref. Certif. No.

**JP-20126-M2-UL**

**Factories:**

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

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

**Summary of Modifications:**

Table 4.1.2 was revised as below.

- Deletion of "minimum 0.4mm thick" from Bobbin material of T1 (Functional insulation).
  - Deletion of "#" from alternate X-Capacitor (C1, C4) type B3292#.
  - Revision of thickness for Bobbin material of T2 from minimum 0.4mm thick to minimum 0.3mm thick.
  - Revision of manufacturer name of Coating for PCB from Dow Corning Corp. to Dow Silicones Corp.
  - Addition of the alternative Coating for PCB: Mfr. Humiseal, Div Of Chase Corp, Type 1B59LU.
- Revision of from Clause 5.6.6 to 5.6.6.2 and Table 5.6.6.2.

**Additional information (if necessary)**



- 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: 2021-06-25  
Original Issue Date: 2018-05-18

Signature:

*M. Takagi*  
Masamichi Takagi