



Ref. Certif. No.

**JP-25474-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"/> <a href="#">Additional Information on page 2</a>
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.	HWS1000L-X /YYYYYYYY, SWS1000L-X /YYYYYYYY, where X can be 3, 5, 12, 15, 24, 36, 48, or 60. And, /YYYYYYYY can be /RF, /RFHC, /RFCO2, /HC, /HCCO2, /CO2, /RFHCCO2, /LLF, /LLFCO2, /LNF1 (only for X is 48) or blank  HWS1000L-X /BATz, where X can be 36 or 60. And, z can be 3 digit max which consist of 0 to 9 and/or A to Z or blank
Additional information (if necessary may also be reported on page 2)	Additionally evaluated to EN IEC 62368-1:2020/ A11:2020. National Differences specified in the CB Test Report. <input type="checkbox"/> <a href="#">Additional Information on page 2</a>
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-A6151-CB-1 issued on 2021-09-17

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: 2021-09-22

Signature: Masamichi Takagi



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**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

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

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

**Ratings:**

Input:  
100-240 Vac, 13A, 50/60 Hz.

Output:  
HWS1000L-3, SWS1000L-3, +3.3Vdc, 200A;  
HWS1000L-5, SWS1000L-5, +5Vdc (+4 - +6Vdc), 200A max;  
HWS1000L-12, SWS1000L-12, +12Vdc (+9.6 - +14.4Vdc), 88A max;  
HWS1000L-15, SWS1000L-15, +15Vdc (+12 - +19.5Vdc), 70A max;  
HWS1000L-24, SWS1000L-24, +24Vdc (+19.2 - +28.8Vdc), 44A max;  
HWS1000L-36, SWS1000L-36, +36Vdc (+28.8 - +43.2Vdc), 29A max;  
HWS1000L-48, SWS1000L-48, +48Vdc (+38.4 - +56Vdc), 22A max;  
HWS1000L-60, SWS1000L-60, +60Vdc (+48 - +66 Vdc), 17A max

**Additional information (if necessary)**



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*M. Takagi*  
Masamichi Takagi