

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

CB TEST CERTIFICATE

Product

DC-To-DC Converters

Name and address of the applicant

TDK-LAMBDA AMERICAS INC
SUITE 100
3320 MATRIX DR
RICHARDSON TX 75082
UNITED STATES

Name and address of the manufacturer

TDK-LAMBDA AMERICAS INC
SUITE 100
3320 MATRIX DR
RICHARDSON TX 75082
UNITED STATES

Name and address of the factory

Note: When more than one factory, please report on page 2

TDK-LAMBDA AMERICAS INC
SUITE 100
3320 MATRIX DR
RICHARDSON TX 75082
UNITED STATES Additional Information on page 2

Ratings and principal characteristics

Optional

Rated Input: 9 - 40 VDC, 16 A Max
Rated Output: 48 VDC Max, 35 A Max, 120 W Max.

Trademark / Brand (if any)

TDK



Type of Customer's Testing Facility (CTF) Stage used

CTF Stage 2

Model / Type Ref.

HQA Series -
HQA24***W%%V-xxx(-S)(-?)
HQA2W***W%%V-xxx(-S)(-?)
See Page 2

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

E220248-A6008-CB-1 issued on 2019-11-01,
E220248-A6008-CB-1 issued on 2019-11-06

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

Date: 2019-11-06

Signature:

Jolanta M. Wroblewska



Ref. Certif. No.

US-34711-UL

Model Details:

HQA Series -

HQA24***W%%V-xxx(-S)(-?)

where 24 represents nominal input voltage, with a 18-40Vdc input

*** represents rated power in Watts, with max power of 120. (000 to 120 to represent from 0 to 120 watts)

%%V represents rated output voltage, 48Vdc, (000 to 480 to represent from 0 to 48 VDC)

and xxx indicates a number or alphanumeric character which affects non safety related features

Optional-S indicating standard, or -M indicating enhanced, with optional -? (indicating Non safety related option)

following the previous option

HQA2W***W%%V-xxx(-S)(-?)

where 2W represents nominal input voltage, with a 10-40Vdc input, with a Max Input Current of 16A

*** represents rated power in Watts, with max power, of 120. (000 to 120 to represent from 0 to 120 watts)

%%V represents rated output voltage between,3.3Vdc - 28Vdc, (033 to 280 to represent from 3.3 to 28 VDC) with Max Output Power of 120W

and xxx indicates a number or alphanumeric character which affects non safety related features

Optional-S indicating standard, or -M indicating enhanced, with optional -? (indicating Non safety related option)

following the previous option

Factories:

TDK-LAMBDA MALAYSIA SDN BHD

PLO33 KAWASAN PERINDUSTRIAN SENAI

81400 SENAI

JOHOR MALAYSIA

Additional information (if necessary)



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