

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

CB TEST CERTIFICATE

Product

Power supply for building-in (DC-DC-Converter)

Name and address of the applicant

TDK-Lambda Americas Inc.  
3320 Matrix Drive Suite 100, RICHARDSON TX 75082  
UNITED STATES OF AMERICA

Name and address of the manufacturer

TDK-Lambda Americas Inc.  
3320 Matrix Drive Suite 100, RICHARDSON TX 75082  
UNITED STATES OF AMERICA

Name and address of the factory

TDK-Lambda Americas Inc.  
3320 Matrix Drive Suite 100, RICHARDSON TX 75082  
UNITED STATES OF AMERICA

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

Additional Information on page 2

Ratings and principal characteristics

Input: DC 36.0 V - 75 V, max. 19 A  
Output: DC 8 - 12 V, max. 58 A  
(see Test Report)

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

CTF Stage 2

Model / Type Ref.

iFB-series  
(see Test Report)

Additional information (if necessary may also be reported on page 2)

Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC 60950-1:2005  
IEC 60950-1:2005/AMD1:2009  
IEC 60950-1:2005/AMD2:2013

As shown in the Test Report Ref. No. which forms part of this Certificate

250567-TL4-1

This CB Test Certificate is issued by the National Certification Body

VDE Prüf- und Zertifizierungsinstitut GmbH  
VDE Testing and Certification Institute  
Zertifizierung Produkte / Certification Products

Date: 2018-06-27

Signature:

J. Richter



Ref. Certif. No.

**DE1-49640/A3**

TDK-Lambda Malaysia Sdn. Bhd.  
PLO 33 Kawasan Perindustrian Senai Locked Bag  
No. 110, 81400 SENAI, JOHOR, Johor  
MALAYSIA

**Additional information (if necessary)**

History:  
Date of Origin: 2012-02-08  
Reason for A3: Revision of critical component list  
For details see test report

**VDE** Prüf- und Zertifizierungsinstitut GmbH  
**VDE** Testing and Certification Institute  
Zertifizierung Produkte / Certification Products

Date: 2018-06-27

Signature: J. Richter

# VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

TDK-Lambda Americas Inc., 3320 Matrix Drive Suite 100, RICHARDSON TX  
75082, US USA

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. Fehler! Ungültiger  
Eigenverweis auf Textmarke..

This supplement is only valid in conjunction with page 1 of the Certificate No. Fehler! Ungültiger Eigenverweis  
auf Textmarke.

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Aktenzeichen / File ref.

2520400-3336-  
0028/250567/TL4/MBS

Ausweis-Nr. /  
Certificate No.

Fehler! Ungültiger Eigen-  
verweis auf Textmarke.

letzte Änderung / updated

2018-06-27

Anlage /  
Appendix

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Datum / Date

2010-11-15

## Netzteil für IT-Geräte / DC/DC-Wandler Power supply for IT-Equipment / DC/DC-Converter

### THIS LIST OF CRITICAL COMPONENTS REPLACES PREVIOUS LISTS

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
Main Isolation Transformer (T1, T2) PWB Planar type	Various	Various	Integrated into PWB, Min V-, 130C, Multiple layers With Epoxy type film (FR4) , Prepeg	ZPMV2	UL
Transformer (T152) Gate Transformer	BOURNS (DONGGUAN) ELECTRONICS CO.,LTD	P/N AT00164	Bobbin (QMFZ2) Sumitomo type PM9630 rated V-0, 150 C, AWG#40 Heavy Gold rated 180C and (OBJT2), Rubadue insulated wires, rated 155C	Evaluated under this investigation	--
Inductor (L401, L501) Top and Bot- tom PWB	Various	Various	Integrated into PWB Min V-1, 130 C	ZPMV2	UL
Thermistor, NTC	TDK	Various	150 K ohm	Evaluated under this investigation	--
Transformer (T300) Bias Transformer	BOURNS (DONGGUAN) ELECTRONICS CO.,LTD	P/N AT00146	Bobbin (QMFZ2) Sumitomo, type PM9630, V-0, 150 °C; copper mag- net wire (OBMW2) rated 180°C and (OBJT2), insulated wires, rated 120°C.or 155°C	Evaluated under this investigation	--
Optocoupler (U101, and or U102)	(NEC)	PS2911-1 Se- ries	min. 1500V dc isolation voltage	FPQU2 (E72422)	UL
Optocoupler (U101, and or U102) Alternate	(NEC)	PS2811-1 Se- ries	min. 1500V dc isolation voltage	FPQU2 (E72422)	UL
Transformer (TS1, TS2) Current Sense	BOURNS (DONGGUAN) ELECTRONICS CO.,LTD	P/N AT00160	Class 130(B) insulation system	OBJY2(E230441)	--
Label	Various	Various	40°C, suitable for each type of sur- face.	PGJ12 or PGDQ2	UL
Optional: Capacitor C340, C701, and C704	TDK	C4520X7R3D# ####	1000 pF, 2000 V, Ceramic capacitor	--	--
	Murata Alternate	GR442QR73D# ####			
	Kemet Alternate	C1808C###GR AC####			
	Kemet Alternate	C1808X###GR AC####			

