



TDK-Lambda Americas Inc.
3055 Del Sol Blvd.
San Diego, CA 92154 USA
<http://us.tdk-lambda.com/lp>

September 18, 2009

RoHS Certificate of Compliance

Dear Customer,

This document is to certify that the following TDK-Lambda products detailed on pages two and three comply (or are targeted to comply on the dates specified) with the requirements of the RoHS European Directive 2002/95/EC.

General Requirements of the Directive:

- 1) $\leq 0.1\%$ by weight in homogenous materials for lead
- 2) $\leq 0.1\%$ by weight in homogenous materials for hexavalent chromium
- 3) $\leq 0.1\%$ by weight in homogenous materials for mercury
- 4) $\leq 0.1\%$ by weight in homogenous materials for polybrominated biphenyls
- 5) $\leq 0.1\%$ by weight in homogenous materials for polybrominated diphenyl ethers
- 6) $\leq 0.01\%$ by weight in homogenous materials for cadmium
- 7) Complies with nullification of Deca BDE exemption (July 1, 2008)

For definitions and exemptions, please see the RoHS Directive 2002/95/EC

Date of RoHS Manufacture

Please note that when specified, the dates indicate the change over of manufacturing processes from non RoHS to RoHS manufacture. Unless otherwise specified at the time of order, non RoHS material may be shipped until stocks are exhausted.

Please consult with TDK-Lambda for models not listed.

Part Numbering and Identification

Some TDK-Lambda products are marked with a suffix “-HFP” or “G” (this will not affect part numbering of the products), others will be identified by the RoHS symbol. See listing below.



(Note: Symbol may be black & white)

Note: On smaller products or open frame power supplies (ex ZWS), “-HFP” suffix may only be listed on product packaging. On the “i” series of DC-DC converters (iEA, iQE, etc) a suffix “-R” is added to the part number.



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Index of Models

<u>Model Series</u>	<u>Date of RoHS production</u>	<u>Product Marking</u>
Alpha - CA400, 600, 1000, 1500	April 2006	Label
CC-E	All production	None
CSS	All production	Label
DLP75 through 240	October 2005	HFP Suffix
DPP15 through 480	January 2006	Label
DSP10 through 100	January 2006	Label
DT	December 2005	Label
EFE	All production	Label
FPS	June 2006	HFP Suffix
G0112A, G0177, G0180	February 2006	Label
HAX-xxx (Heatsinks)	December 2005	A suffix
HK-A	November 2005	HFP Suffix
HSx, HDx, HTx	July 2006	Label
HWS15 through 600	All production	HFP Suffix
HWS1000 through 1800T	March 2006	HFP Suffix
iAx, iBx, iEx, iFA, iQx, iSA	All production	- R model Suffix
JFS	August 2006	Label
JWS50 through 150	October 2005	HFP Suffix
JWS240 through 600	December 2005	HFP Suffix
JWT75 through 100	October 2005	HFP Suffix
K0, K1, K3, K4, K6, K9xxxx	April 2006	Label
KM	November 2007	Label
KPS, KPSA	November 2005	Label
KWS	August 2006	HFP Suffix
KWD	June 2006	HFP Suffix
LD	All production	HFP Suffix
LS	All production	HFP Suffix
LWT15H through 50H	November 2005	HFP Suffix
LZSA (All models)	All production	Label
MAW	October 2005	HFP Suffix
MB	October 2005	HFP Suffix
MBS13, 48	January 2006	HFP Suffix
MC12/MZ12	All production	HFP OR LF3 Suffix
MC13	December 2005	HFP Suffix
MX13	January 2006	HFP Suffix
MXB	January 2005	HFP Suffix
NNS/NND	February 2006	HFP Suffix
NV1, NV3, NV7, NVA	April 2006	Label
PAE50, 100	All production	HFP Suffix
PAF	December 2005	HFP Suffix
PAH	October 2005	HFP Suffix
PAN	December 2005	HFP Suffix
PAQ	May 2005	HFP Suffix
PC/PCD	October 2005	HFP Suffix



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Model Series	Date of RoHS production	Product Marking
PD600/PD800	September 2008	HFP Suffix
PF-A	February 2006	HFP Suffix
PFE (all models)	All production	HFP Suffix
PH (all models PH-S & PH-F)	December 2005	HFP Suffix
PL	April 2006	Label
PP15 & PP25	October 2005	HFP Suffix
PSS/PSD	All production	HFP Suffix
PXA, PXB, PXD, PXE, PXF	October 2005	Label
R1xxxx (Alpha)	April 2006	Label
R series filters	All production	None
R22XXX (PFE based)	All production	Label
SCS/SCD/SCT/SC150	February 2006	G Suffix
SCx120Pxx	January 2006	Label
SCS120PWxx	December 2005	Label
Sirius (CS, CSF250/350)	April 2006	Label
SR	February 2006	HFP Suffix
SWS50 through 600	October 2005	HFP Suffix
SWS600L, SWS1000L	All production	HFP Suffix
SWT30 through 100	October 2005	HFP Suffix
TH, TL, TX ⁽¹⁾	July 2006	Label
Vega (V0-9, K0-9)	April 2006	Label
VSB/VSC/VSP	October 2005	HFP Suffix
ZPS, ZPD, ZPT, ZPSA	November 2005	Label
ZUP	July 2006	HFP Suffix
ZWDPAF	October 2005	HFP Suffix
ZWQ	March 2006	HFP Suffix
ZWS5-50, ZWS-AF, ZWS-PAF	October 2005	HFP Suffix
ZWS120PPF-24	October 2005	HFP Suffix
ZWX	November 2007	HFP Suffix

Note (1) TH120024, THR4, TL100024, TL250048, TLR5 compliant as of June 2006
 Includes TLR5H1007-001 Rev 1:3 and higher
 TL100048 Rev 4:24 and higher
 TLCK232 Rev 1:1 and higher
 DT60PW240P, DT45PW301 & DT60PW240P-011
 DHP480 series is currently non RoHS (100 piece minimum for RoHS parts)

David Norton
 VP Marketing
 TDK-Lambda Americas