



TDK-Lambda Americas Inc.
401 Mile of Cars Way, Suite 325
National City, CA 91950 USA
<http://us.tdk-lambda.com/lp>

June 17, 2017

RoHS Certificate of Compliance

This document is to certify that the following TDK-Lambda products listed on the following pages comply (or are targeted to comply on the dates specified) with the requirements of the RoHS European Directive 2011/65/EU.

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)
- 8) The products no longer claim the expired 7(c)-iii exemption clause detailed in 2011/65/EU
- 9) The products are claiming exemptions 6(c), 7(a), 7(c)-i and -ii.

For definitions and exemptions, please see the RoHS Directive 2011/65/EU.

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 contact TDK-Lambda for models not listed.

Part Numbering and Identification

CE Marking on the product now covers RoHS compliance for applicable (8) product categories as of January 2, 2013, and the additional RoHS identifiers below will be dropped

<http://www.ce-mark.com/Rohs%20final.pdf>

Previously some TDK-Lambda products were marked with a suffix "HFP", "EHFP" or "G" (this will not affect part numbering of the products), others were identified by a RoHS symbol. Note: On smaller products or open frame power supplies (ex ZWS), "-EHFP" suffix may only be listed on product packaging.



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Index of Models

| Model Series | Date of RoHS production | Product Marking |
|-----------------------------------|-------------------------|------------------|
| ALC, ALV | All production | EHFP Suffix |
| ALD | All production | None |
| ARAxxxxx | All production | None |
| Alpha - CA400, 600, 1000, 1500 | April 2006 | CE Mark |
| CC-E, CC-P-E | All production | None |
| CCK, CCM, CCN, CCP | December 2005 | None |
| CFE | All production | CE Mark |
| CN-A | All production | EHFP Suffix |
| CPFE | All production | CE Mark |
| CSS | All production | CE Mark |
| DFPxxxxx | All production | None |
| DLP75 through 240 & DLP/PU | October 2005 | EHFP Suffix |
| DPP15 through 960 | January 2006 | CE Mark |
| DPX | All production | CE Mark |
| DRB | All production | CE Mark |
| DRF | All production | CE Mark |
| DSP10 through 100 | January 2006 | CE Mark |
| DT | December 2005 | CE Mark |
| EFE | All production | CE Mark |
| FPS | June 2006 | EHFP Suffix |
| G0112A, G0177, G0180, G0186 | February 2006 | CE Mark |
| GWS | All production | HFP Suffix |
| HAx-xxx (Heatsinks) | December 2005 | A suffix |
| HFE | All production | EHFP Suffix |
| HK-A | November 2005 | EHFP Suffix |
| HSx, HDx, HTx | July 2006 | Label |
| HWS15 through 600 | All production | EHFP Suffix |
| HWS1000 through 1800T | March 2006 | EHFP Suffix |
| iAx, iBx, iCx, iEx, iFA, iQx, iSA | All production | - R model Suffix |
| JFS | August 2006 | Label |
| JWS50 through 150 | October 2005 | EHFP Suffix |
| JWS240 through 600 | December 2005 | EHFP Suffix |
| JWT75 through 100 | October 2005 | EHFP Suffix |
| KAS | All production | CE Mark |
| K0, K1, K3, K4, K6, K9xxxx | April 2006 | CE Mark |
| KM | November 2007 | CE Mark |
| KPS, KPSA | November 2005 | CE Mark |
| KT- | April 2006 | None |
| KWS | August 2006 | HFP Suffix |
| KWD | August 2006 | HFP Suffix |
| LD, LEDC | All production | EHFP Suffix |
| LS | All production | EHFP Suffix |
| LWT15H through 50H | November 2005 | HFP Suffix |
| LZSA (All models) | All production | CE Mark |



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| <u>Model Series</u> | <u>Date of RoHS production</u> | <u>Product Marking</u> |
|-----------------------------|--------------------------------|------------------------|
| MAW, MB | October 2005 | HFP Suffix |
| MBS13, 48 | January 2006 | HFP Suffix |
| MC12/MZ12 | All production | HFP OR LF3 Suffix |
| MC13 | December 2005 | HFP Suffix |
| MTW | All production | EHFP Suffix |
| MWS | All production | EHFP Suffix |
| MX13 | January 2006 | HFP Suffix |
| MXB | January 2005 | HFP Suffix |
| NNS/NND | February 2006 | HFP Suffix |
| NV1, NV3, NV7, NVA, NVM | April 2006 | CE Mark |
| PAE50, 100 | All production | HFP Suffix |
| PAF | December 2005 | EHFP Suffix |
| PAH | October 2005 | EHFP Suffix |
| PAN | December 2005 | EHFP Suffix |
| PAQ | May 2005 | EHFP Suffix |
| PC/PCD | October 2005 | HFP Suffix |
| PD600/PD800 | September 2008 | HFP Suffix |
| PF-A | February 2006 | EHFP Suffix |
| PFE (all models) | All production | EHFP Suffix |
| PH (all models PH-S & PH-F) | December 2005 | EHFP Suffix |
| PL | April 2006 | Label |
| PP15 & PP25 | October 2005 | HFP Suffix |
| PSS/PSD | All production | EHFP Suffix |
| PXA, PXB, PXD, PXE, PXF | October 2005 | CE Mark |
| PV | October 2005 | EHFP Suffix |
| QM7 | All production | CE Mark |
| R1xxxx (Alpha) | April 2006 | CE Mark |
| R series filters | All production | None |
| R22XXX (PFE based) | All production | CE Mark |
| RFE1000-2500 | All production | CE Mark |
| RKE, RTW | October 2005 | EHFP Suffix |
| RWS-B | All production | CE Mark |
| SCS/SCD/SCT/SC150 | February 2006 | G Suffix |
| SCx120Pxx | January 2006 | CE Mark |
| SCS120PWxx | December 2005 | CE Mark |
| Sirius (CS, CSF250/350) | April 2006 | CE Mark |
| SR | February 2006 | HFP Suffix |
| SWS50 through 600 | October 2005 | EHFP Suffix |
| SWS600L, SWS1000L | All production | EHFP Suffix |
| SWT30 through 100 | October 2005 | HFP Suffix |
| TH, TL, TX ⁽¹⁾ | July 2006 | CE Mark |
| U2Yxxxx through U7Yxxxx | All production | CE Mark |
| Vega (V0-9, K0-9) | April 2006 | CE Mark |



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|-------------------------------|--------------------------------|------------------------|
| VA-26519 | All production | CE Mark |
| VA-26944, VA-26861 | Nov 2009 | CE Mark |
| VA-PFE1000Fxxx, VA-PAH450Sxx | All production | CE Mark |
| VSB/VSC/VSP | October 2005 | EHFP Suffix |
| X5xxxxx (NVM175) | All production | CE Mark |
| Y1xxxxx through Y9xxxxx (EFE) | All production | CE Mark |
| Z+ | All production | CE Mark |
| ZPS, ZPD, ZPT, ZPSA | November 2005 | EHFP Suffix |
| ZWDPAF | October 2005 | EHFP Suffix |
| ZUP | July 2006 | EHFP Suffix |
| ZWQ | March 2006 | EHFP Suffix |
| ZWS, -AF, -B, -BP, -BAF, -PAF | October 2005 | EHFP Suffix |
| ZWS120PPF-24 | October 2005 | HFP Suffix |
| ZWX | November 2007 | EHFP Suffix |
| 88537-88540 | April 2006 | None |

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
Raw material 52151T, 75038

Tom Tillman

Director of Marketing