



Test Report issued under the responsibility of:



**TEST REPORT**  
**IEC 62368-1**  
**Audio/video, information and communication technology equipment**  
**Part 1: Safety requirements**

**Report Number** .....: E220248-A6001-CB-1  
**Date of issue**.....: 2018-08-03 ; Amendment 1 : 2019-08-07  
**Total number of pages** .....: 13

**Applicant's name**.....: **TDK-LAMBDA AMERICAS INC**  
**Address** .....: **SUITE 100**  
**3320 MATRIX DR**  
**RICHARDSON TX 75082**  
**UNITED STATES**

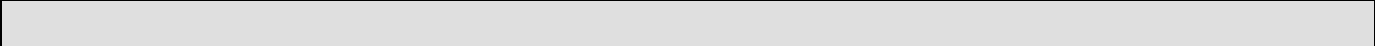
**Name of Test Laboratory** .....: UL RTP  
**preparing the Report** .....: 12 Laboratory Drive, Research Triangle Park , NC, 27709, USA


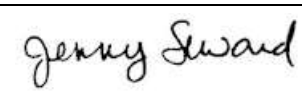
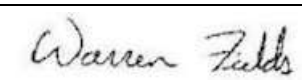
**Test specification:**  
**Standard** .....: IEC 62368-1:2014 (Second Edition)  
**Test procedure** .....: CB Scheme  
**Non-standard test method**.....: N/A

**Test Report Form No**.....: IEC62368\_1B  
**Test Report Form(s) Originator** .....: UL(US)  
**Master TRF**.....: 2014-03

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The test results presented in this report relate only to the object tested.  
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The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.



Test Item description	: DC to DC Converter	
Trade Mark	: TDK or TDK-Lambda 	
Manufacturer	: TDK-LAMBDA AMERICAS INC SUITE 100 3320 MATRIX DR RICHARDSON TX 75082 UNITED STATES	
Model/Type reference	: DDA**(N or I)-%%%-xxxx-(bbb);  Where "**" represents rated output power between 0W and 999W, based on the installed dc-dc power unit's rating. N = non-isolated, I = operational insulation / isolated. %%-% denotes number of outputs, number of modules and polarity (e.g. S1PX = single unit, positive or D2PN = dual output, two modules, one positive and one negative output) xxxx indicates a number indicating magnitude of nominal voltage set point (e.g. 1205 = one 12V and 5V) bbb indicates feature set.. e.g. (on off logic, power good feature present)	
Ratings	: N/A	
Testing procedure and testing location:		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	
Testing location/ address	: UL RTP, 12 Laboratory Drive, Research Triangle Park , NC, 27709, USA	
Tested by (name + signature)	Jenny Seward / Project Handler	
Approved by (name + signature)	Warren Fields / Reviewer	
Testing procedure: CTF Stage 1		
Testing location/ address	:	
Tested by (name + signature)		
Approved by (name + signature)		
Testing procedure: CTF Stage 2		

Testing location/ address..... :		TDK-LAMBDA AMERICAS INC., SUITE 100, 3320 MATRIX DR., RICHARDSON TX 75082, USA	
Tested by (name + signature)..... :		Steven F McKitrick / Tester	See original Test Report for signature
Witnessed by (name + signature)..... :		Mengis Tesfay / Project Handler	See original Test Report for signature
Approved by (name + signature) ..... :		Scott Shepler / Reviewer	See original Test Report for signature
<input type="checkbox"/>	Testing procedure: CTF Stage 3		
<input type="checkbox"/>	Testing procedure: CTF Stage 4		
Testing location/ address..... :			
Tested by (name + signature)..... :			
Witnessed by (name + signature)..... :			
Approved by (name + signature) ..... :			
Supervised by (name + signature) ..... :			

**List of Attachments (including a total number of pages in each attachment):**

National Differences (2 pages)

Enclosures (1 pages)

**Summary of testing:****Tests performed (name of test and test clause):**  
None**Testing Location:** None**Summary of compliance with National Differences:****List of countries addressed:** EU Group Differences, US,CA **The product fulfils the requirements of:** EN 62368-1:2014 + A11:2017