
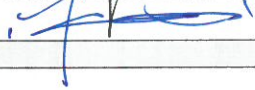




Test Report issued under the responsibility of:



TEST REPORT IEC 60601-1 Part 1: General requirements for basic safety and essential performance	
Report Number	15077117 002
Date of issue	20.03.2017
Total number of pages	15
Name of Testing Laboratory preparing the Report	TÜV Rheinland Shanghai Co., Ltd. No.177, 178, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China
Applicant's name	TDK-Lambda Corp. Nagaoka Technical Center
Address	2704-1 Settaya-machi, Nagaoka-shi, NIIGATA 940-1195, JAPAN
Test specification:	
Standard	IEC 60601-1:2005 (Third Edition) + CORR. 1 (2006) + CORR. 2 (2007) + AM1 (2012) or IEC 60601-1 (2012 reprint)
Test procedure	CB Scheme
Non-standard test method	N/A
Test Report Form No.	IEC60601_1J_PS
Test Report Form(s) Originator	UL(US)
Master TRF	2014-09
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General disclaimer: The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.	

Test item description..... :	Switching Power Supply	
Trade Mark..... :	TDK-Lambda	
Manufacturer	Same as applicant	
Model/Type reference..... :	CUT75-zzz/abcde; CUT75J-zzz/abcde (zzz = 522 or 5FF; abcde = any alphanumeric character with "/" or blank)	
Ratings..... :	AC input: 100-240V, 2.0A, 50-60Hz DC output: see page 7 (Table A)	
Testing procedure and testing location:		
<input checked="" type="checkbox"/> CB Testing Laboratory:	TÜV Rheinland Shanghai Co., Ltd.	
Testing location/ address	No.177, 178, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China	
<input type="checkbox"/> Associated CB Testing Laboratory:		
Testing location/ address		
Tested by (name + signature)..... :	Sunny Sun	
Approved by (name + signature)..... :	Mark Chen	
<input type="checkbox"/> Testing procedure: TMP/CTF Stage 1:		
Testing location/ address		
Tested by (name + signature)..... :		
Approved by (name + signature)..... :		
<input type="checkbox"/> Testing procedure: WMT/CTF Stage 2:		
Testing location/ address		
Tested by (name + signature)..... :		
Witnessed by (name + signature)		
Approved by (name + signature)..... :		
<input type="checkbox"/> Testing procedure: SMT/CTF Stage 3 or 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): N/A	
Summary of testing:	
Tests performed (name of test and test clause): No further test is considered necessary.	Testing location: TÜV Rheinland Shanghai Co., Ltd. No.177, 178, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China
Summary of compliance with National Differences List of countries addressed: AT, CA, GB, KR, SE, US Explanation of used codes: AT=Austria; CA=Canada; GB=United Kingdom; KR=Korea of Republic; SE=Sweden; US = United States of America. The product also fulfils the requirements of below: EN 60601-1:2006++A11:2011+A1:2013+A12:2014, ANSI/AAMI ES60601-1:2005+A2 (R2012) +A1, CAN/CSA-C22.2 NO. 60601-1:14 and CAN/CSA-C22.2 NO. 60601-1-08 (R2013).	

Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

<New Models>

CUT75J- 522 INPUT: 100-240VAC~ 2.0A 50-60Hz OUTPUT: CH1: +5 V= 8.0 A CH2: +12 V= 2.5 A CH3: -12 V= 0.5 A	<div style="border: 1px dashed black; padding: 5px; text-align: center;">BAR CODE</div> TDK-Lambda MADE IN CHINA
---	---

CUT75J- 5FF INPUT: 100-240VAC~ 2.0A 50-60Hz OUTPUT: CH1: +5 V= 8.0 A CH2: +15 V= 2.0 A CH3: -15 V= 0.4 A	<div style="border: 1px dashed black; padding: 5px; text-align: center;">BAR CODE</div> TDK-Lambda MADE IN CHINA
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CUT75J- 522 /A INPUT: 100-240VAC~ 2.0A 50-60Hz OUTPUT: CH1: +5 V= 8.0 A CH2: +12 V= 2.5 A CH3: -12 V= 0.5 A	<div style="border: 1px dashed black; padding: 5px; text-align: center;">BAR CODE</div> TDK-Lambda MADE IN CHINA
--	---

CUT75J- 5FF/A INPUT: 100-240VAC~ 2.0A 50-60Hz OUTPUT: CH1: +5 V= 8.0 A CH2: +15 V= 2.0 A CH3: -15 V= 0.4 A	<div style="border: 1px dashed black; padding: 5px; text-align: center;">BAR CODE</div> TDK-Lambda MADE IN CHINA
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CUT75J- 522 /B INPUT: 100-240VAC~ 2.0A 50-60Hz OUTPUT: CH1: +5 V= 8.0 A CH2: +12 V= 2.5 A CH3: -12 V= 0.5 A	<div style="border: 1px dashed black; padding: 5px; text-align: center;">BAR CODE</div> TDK-Lambda MADE IN CHINA
--	---

CUT75J- 5FF/B INPUT: 100-240VAC~ 2.0A 50-60Hz OUTPUT: CH1: +5 V= 8.0 A CH2: +15 V= 2.0 A CH3: -15 V= 0.4 A	<div style="border: 1px dashed black; padding: 5px; text-align: center;">BAR CODE</div> TDK-Lambda MADE IN CHINA
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CUT75J-522 /L
INPUT: 100-240VAC ~ 2.0A
50-60Hz
OUTPUT: CH1: +5 V = 8.0 A
CH2: +12 V = 2.5 A
CH3: -12 V = 0.5 A

BAR CODE

TDK-Lambda
MADE IN CHINA

CUT75J-5FF/L
INPUT: 100-240VAC ~ 2.0A
50-60Hz
OUTPUT: CH1: +5 V = 8.0 A
CH2: +15 V = 2.0 A
CH3: -15 V = 0.4 A

BAR CODE

TDK-Lambda
MADE IN CHINA

CUT75J-522 /T
INPUT: 100-240VAC ~ 2.0A
50-60Hz
OUTPUT: CH1: +5 V = 8.0 A
CH2: +12 V = 2.5 A
CH3: -12 V = 0.5 A

BAR CODE

TDK-Lambda
MADE IN CHINA

CUT75J-5FF/T
INPUT: 100-240VAC ~ 2.0A
50-60Hz
OUTPUT: CH1: +5 V = 8.0 A
CH2: +15 V = 2.0 A
CH3: -15 V = 0.4 A

BAR CODE

TDK-Lambda
MADE IN CHINA

GENERAL INFORMATION	
Test item particulars (see also Clause 6):	For Class I ME equipment and a built-in, open frame type switching mode power supply
Classification of installation and use	Fixed
Device type (component/sub-assembly/ equipment/ system)	Sub-assembly
Intended use (Including type of patient, application location)	By other methods validated described by the manufacturer
Mode of operation	Continuous
Supply connection	Primary connector
Accessories and detachable parts included	None
Other options include	None
Testing	
Date of receipt of test item(s)	N/A
Dates tests performed	N/A
Possible test case verdicts:	
- test case does not apply to the test object	N/A
- test object does meet the requirement.....	Pass (P)
- test object was not evaluated for the requirement	N/E (collateral standards only)
- test object does not meet the requirement.....	Fail (F)
Abbreviations used in the report:	
- normal condition	N.C.
- single fault condition.....	S.F.C.
- means of Operator protection	MOOP
- means of Patient protection ...	MOPP
General remarks:	
<p>"(See Attachment #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. The tests results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory. List of test equipment must be kept on file and available for review. Additional test data and/or information provided in the attachments to this report. Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator. This Test Report Form is intended for the investigation of power supplies in accordance with IEC 60601-1:2005, 3rd edition + AM1. The Risk Management was excluded from the investigation; this shall be clearly identified in this report and on the accompanying CB Test Certificate. Additional test data and/or information may be provided in the attachments to this report.</p>	

Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60384-1:2012

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....: Yes Not applicable

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies)..... : 1. Wuxi TDK-Lambda Electronics Co., Ltd.
No. 6 Xing Chuang Er Lu, 214028 Wuxi, Jiangsu, China
2. Zhangjiagang Hua Yang Electronics Co., Ltd.
Zhao Feng Industrial Zone, Leyu Town, 215622 Zhangjiagang, Jiangsu, China

General product information:

Refer to report 15077117 001 for details.

Table A for rating differences between the models:

Model	Rated Input rating			Rated Output V1			Rated Output V2			Rated Output V3		
	Input (V a.c.)	Freq (Hz)	Input (A)	Min. output	typical output	Max. output	Min. output	typical output	Max. output	Min. output	typical output	Max. output
CUT75-522/abcde CUT75J-522/abcde	100-240	50-60	2.0	5.0 Vd.c.	5.0 Vd.c.	5.25 Vd.c.	+12 Vd.c.	+12 Vd.c.	+12 Vd.c.	-12 Vd.c.	-12 Vd.c.	-12 Vd.c.
				8.0A	8.0A	7.62A	2.5A	2.5A	3.0A	0.5A	0.5A	1.0A
Total output power is 76VA max.												
CUT75-5FF/abcde CUT75J-5FF/abcde	100-240	50-60	2.0	5.0 Vd.c.	5.0 Vd.c.	5.25 Vd.c.	+15 Vd.c.	+15 Vd.c.	+15 Vd.c.	-15 Vd.c.	-15 Vd.c.	-15 Vd.c.
				8.0A	8.0A	7.62A	2.0A	2.0A	2.5A	0.4A	0.4A	1.0A
Total output power is 77.5VA max.												

Additional Information

- The input circuit includes one fuse (F1) in the Line conductor and the other fuse (F2) is optional in neutral conductor). Consideration shall be given in the end-use product regarding addition of the second fuse having the same or better characteristics in order to comply with fusing requirements of Clause 8.11.5 of the standard.

Description of change(s):

- Add new model CUT75J-zzz/abcde
- Re-new critical components list.

For the above described change(s) the following was considered to be necessary:

Change	Testing	Comments
1	N/A	The new model is identical to CUT75-zzz/abcde, no construction differences. No further test is considered necessary.
2	N/A	See table 8.10 in bold for details.

Definition of variable(s):

zzz = 522 or 5FF;

abcde = any alphanumeric character with "/" or blank, non safety relevant information, When all of "a, b, c, d, e" are blank, then "/" is no need. The suffix options example for "a, b, c, d, e" would be used shown below & may be used together (e.g. /TB, /TBCO2).

Suffix	description
T	Terminal block
B	base plate under PWB
L	chassis under PWB
A	cover & chassis
F	fix output voltage
Q	CQC approval
other alphanumeric character	non safety relevant information

History of amendments and modifications:

Ref. No. 15077117 001, dated 2015-09-06 (original test report)

Ref. No. 15077117 002, dated 2017-03-20 (1st Modification)