



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**.....: 50331557 002  
Date of issue.....: 2020-12-11  
Total number of pages.....: 50 (see page 3 for attachment)

**Applicant's name**.....: TDK-Lambda (China) Electronics Co., Ltd.  
Address.....: No.95, Zhujiang Road, Xinwu District, Wuxi 214028 Jiangsu, P.R. China

**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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Test Item description .....	Switching Power Supply	
Trade Mark .....	<b>TDK-Lambda</b>	
Manufacturer .....	Same as applicant	
Model/Type reference .....	CUS600M1-zxxxxxxx, CME600A1-zxxxxxxx, CUS500M1-zxxxxxxx, CME500A-zxxxxxxx (z = 12, 19, 24, 28, 32, 36 or 48; xxxxxxx = /T, /J, /M, /C, /C2, /SF, /G, /EF, other alphanumeric character, symbol or blank)  Refer to page 12 for definition of variables	
Ratings .....	See the model list on pages 9-11 for details	
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) .....	Johnson Ma (Technical Expert)	
Approved by (name + signature) .....	Sunny Sun (Technical Reviewer)	
<input type="checkbox"/> Testing procedure: TMP/CTF Stage 1	N/A	
Testing location/ address .....		
Tested by (name + signature) .....		
Approved by (name + signature) .....		
<input type="checkbox"/> Testing procedure: WMT/CTF Stage 2	N/A	
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	N/A	
Testing location/ address .....		
Tested by (name + signature) .....		
Approved by (name + signature) .....		
Supervised by (name + signature) .....		

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

ATTACHMENT – Photo documentation (4 pages)

Note: Total number of pages in each attachment is indicated in individual attachment.

**Summary of testing:**

**Tests performed (name of test and test clause):**

All applicable tests as described in Test Case and Measurement Sections were performed on models CUS500M1-12 +, CUS500M1-19 +, CUS500M1-24 +, CUS500M1-28 +, CUS500M1-32 + and CUS500M1-48 + to represent other models. The maximum specified operation ambient temperature is 70°C.

Specified ambient temperature for operation is according to manufacturer's specification. (See chart of convection cooling and Forced air-cooling on following pages).

The load conditions used during testing: Maximum normal load for this equipment is the operation with the maximum specified DC-load with maximum power condition according to the manufacturer specified.

The test samples are pre-production without serial numbers.

Mounting Direction:

Mounting A and B be used to represent others.

Air speed is same between EUT with EF construction and forced air-cooling condition, and select EF construction for temperature testing covered forced air cooling condition.

**Testing location:**

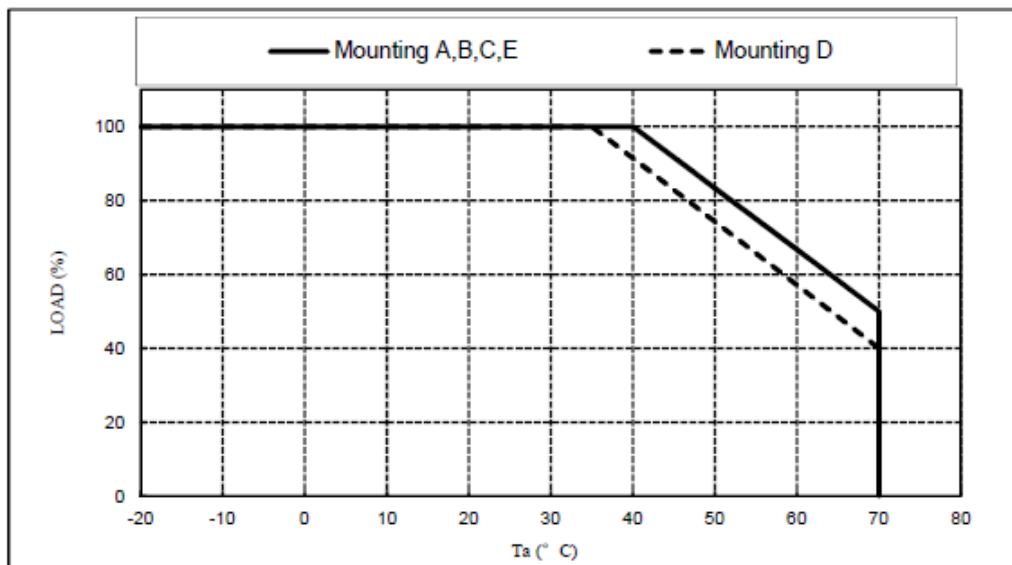
TÜV Rheinland Shanghai Co., Ltd.  
No.177, 178, Lane 777 West  
Guangzhong Road, Jing'an District,  
Shanghai, China

**Derating Curve:**

**Convection cooling condition:**

MODEL: CUS500M1-12/19/24/28/32/36/48

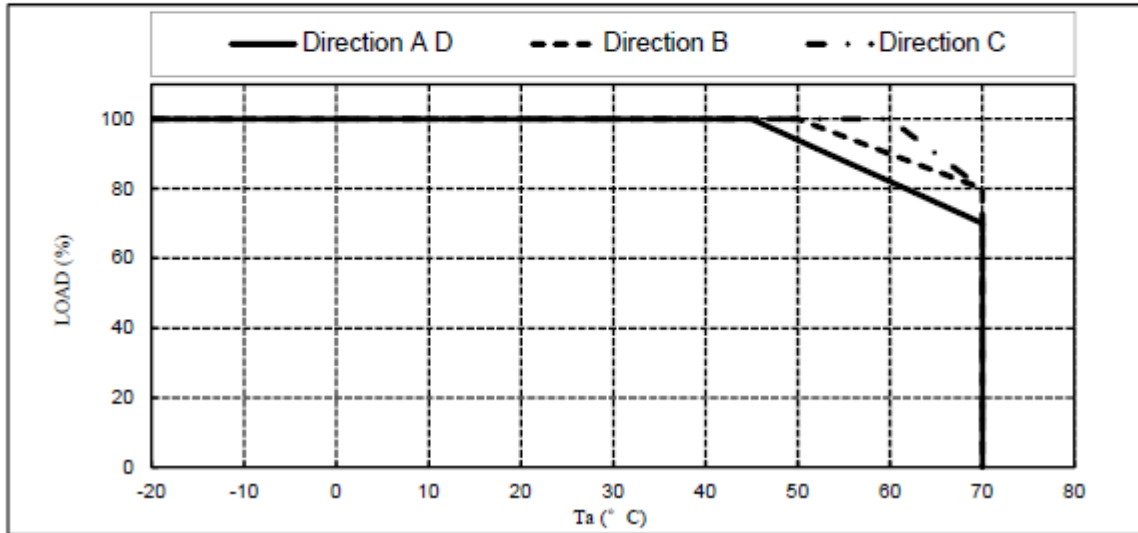
Ta (°C)	Mounting A B C E	Mounting D
	LOAD (%)	LOAD (%)
-20 - +35	100	100
40	100	91.4
50	83.3	74.3
60	66.7	57.1
70	50	40



**Forced air cooling condition:**

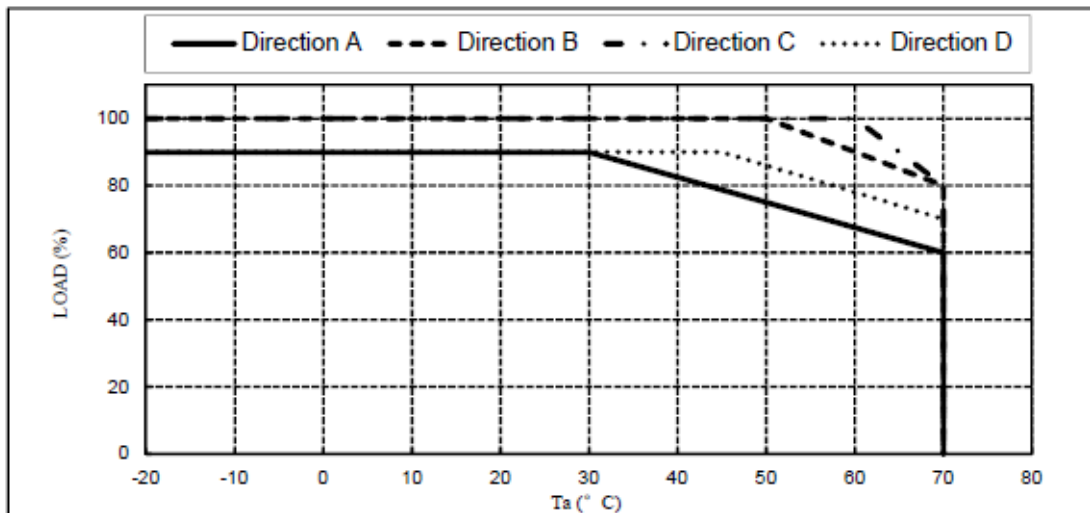
MODEL: CUS500M1-19/24/28/32/36/48

Ta (°C)	Direction A D	Direction B	Direction C
	LOAD (%)	LOAD (%)	LOAD (%)
-20 - +45	100	100	100
50	94	100	100
60	82	90	100
70	70	80	80



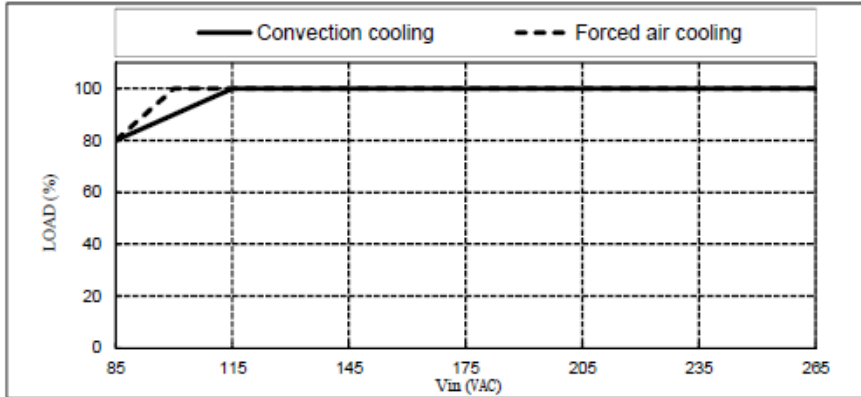
MODEL: CUS500M1-12

Ta (°C)	Direction A	Direction B	Direction C	Direction D
	LOAD (%)	LOAD (%)	LOAD (%)	LOAD (%)
-20 - +30	90	100	100	90
40	82.5	100	100	90
45	78.8	100	100	90
50	75	100	100	86
60	67.5	90	100	78
70	60	80	80	70

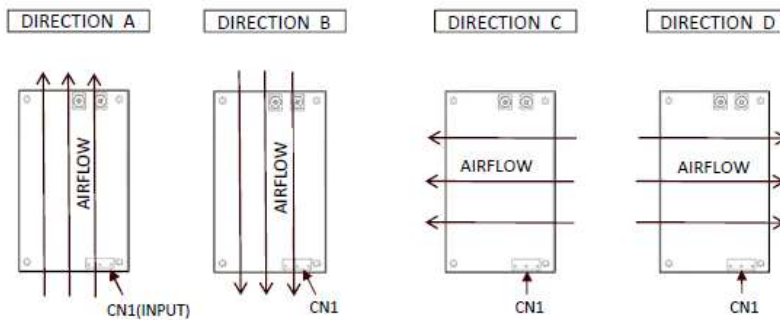


**OUTPUT DERATING VERSUS INPUT VOLTAGE**

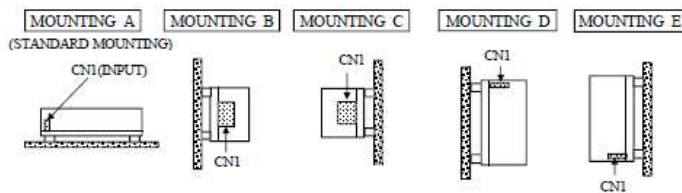
INPUT VOLTAGE (VAC)	LOAD (%)	
	CONVECTION COOLING	FORCED AIR COOLING
85	80	80
100	90	100
115~265	100	100



**AIR FLOW DIRECTION**



**MOUNTING METHOD**



**Summary of compliance with National Differences:**

**List of countries addressed**

EU Group Differences, EU Special National Conditions, AU, CA, DK, JP, NZ, US

Explanation of used codes:

AU = Australia; CA = Canada; DK = Denmark; JP = Japan; NZ = New Zealand; US = United States of America

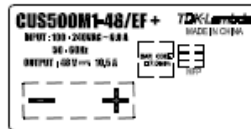
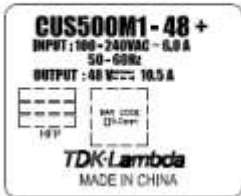
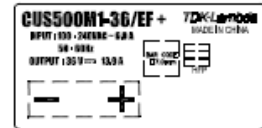
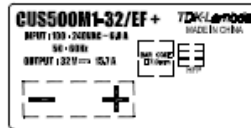
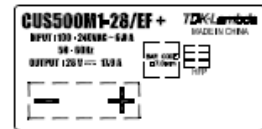
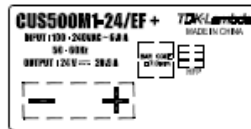
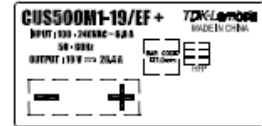
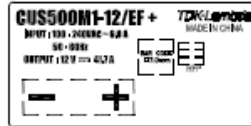
**The product fulfils the requirements of**

IEC 62368-1:2014 (Second Edition),  
EN 62368-1:2014+A11:2017 and  
CSA/UL 62368-1:2014

**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.

<Representative>



Remark: The rating labels of all models have the same design except for the model designation.

Cont.

**CME500A-12+**  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 12 V $\pm$  4.17 A

TDK-Lambda  
 MADE IN CHINA

**CME500A-19+**  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 19 V $\pm$  26.4 A

TDK-Lambda  
 MADE IN CHINA

**CME500A-12/EF+** TDK-Lambda  
 MADE IN CHINA  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 12 V $\pm$  4.17 A

**CME500A-19/EF+** TDK-Lambda  
 MADE IN CHINA  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 19 V $\pm$  26.4 A

**CME500A-24+**  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 24 V $\pm$  20.9 A

TDK-Lambda  
 MADE IN CHINA

**CME500A-28+**  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 28 V $\pm$  17.9 A

TDK-Lambda  
 MADE IN CHINA

**CME500A-24/EF+** TDK-Lambda  
 MADE IN CHINA  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 24 V $\pm$  20.9 A

**CME500A-28/EF+** TDK-Lambda  
 MADE IN CHINA  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 28 V $\pm$  17.9 A

**CME500A-32+**  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 32 V $\pm$  15.7 A

TDK-Lambda  
 MADE IN CHINA

**CME500A-36+**  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 36 V $\pm$  13.9 A

TDK-Lambda  
 MADE IN CHINA

**CME500A-32/EF+** TDK-Lambda  
 MADE IN CHINA  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 32 V $\pm$  15.7 A

**CME500A-36/EF+** TDK-Lambda  
 MADE IN CHINA  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 36 V $\pm$  13.9 A

**CME500A-48+**  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 48 V $\pm$  10.5 A

TDK-Lambda  
 MADE IN CHINA

**CME500A-48/EF+** TDK-Lambda  
 MADE IN CHINA  
 INPUT: 100-240VAC - 6.0 A  
 50-60Hz  
 OUTPUT: 48 V $\pm$  10.5 A

Remark: The rating labels of all models have the same design except for the model designation.

<b>TEST ITEM PARTICULARS:</b>	
Classification of use by.....:	<input type="checkbox"/> Ordinary person; <input checked="" type="checkbox"/> Instructed person <input checked="" type="checkbox"/> Skilled person; <input type="checkbox"/> Children likely to be present
Supply Connection .....	<input checked="" type="checkbox"/> AC Mains; <input type="checkbox"/> DC Mains <input type="checkbox"/> External Circuit - not Mains connected - <input type="checkbox"/> ES1 <input type="checkbox"/> ES2 <input type="checkbox"/> ES3
Supply % Tolerance .....	<input checked="" type="checkbox"/> +10%/-10%; <input type="checkbox"/> +20%/-15% <input type="checkbox"/> +____%/ -____%; <input type="checkbox"/> None
Supply Connection – Type .....	<input checked="" type="checkbox"/> pluggable equipment type A - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> direct plug-in <input checked="" type="checkbox"/> mating connector <input type="checkbox"/> pluggable equipment type B - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input checked="" type="checkbox"/> permanent connection <input checked="" type="checkbox"/> mating connector <input type="checkbox"/> other: _____
Considered current rating of protective device as part of building or equipment installation.....:	16 A or 20 A (for US/CSA) ; Installation location: <input checked="" type="checkbox"/> building; <input type="checkbox"/> equipment
Equipment mobility .....	<input type="checkbox"/> movable; <input type="checkbox"/> hand-held; <input type="checkbox"/> transportable; <input type="checkbox"/> stationary; <input checked="" type="checkbox"/> for building-in; <input type="checkbox"/> direct plug-in; <input type="checkbox"/> rack-mounting; <input type="checkbox"/> wall-mounted
Over voltage category (OVC) .....	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other: _____
Class of equipment .....	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III <input checked="" type="checkbox"/> Not classified
Access location .....	<input checked="" type="checkbox"/> restricted access location <input type="checkbox"/> N/A
Pollution degree (PD) .....	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
Manufacturer's specified maximum operating ambient:	70 °C
IP protection class .....	<input checked="" type="checkbox"/> IPX0 <input type="checkbox"/> IP____
Power Systems .....	<input checked="" type="checkbox"/> TN <input type="checkbox"/> TT <input checked="" type="checkbox"/> IT - 230 V <sub>L-L</sub>
Altitude during operation (m) .....	<input type="checkbox"/> 2000 m or less <input checked="" type="checkbox"/> up to 5000 m
Altitude of test laboratory (m) .....	<input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> _____ m
Mass of equipment (kg) .....	≈0.43 kg
<b>POSSIBLE TEST CASE VERDICTS:</b>	
- test case does not apply to the test object .....	N/A
- test object does meet the requirement .....	P (Pass)
- test object does not meet the requirement .....	F (Fail)
<b>TESTING:</b>	
Date of receipt of test item .....	2020-08-17
Date (s) of performance of tests .....	2020-08-17 – 2020-08-28



GENERAL REMARKS:						
<p>"(See Enclosure #)" refers to additional information appended to the report.            "(See appended table)" refers to a table appended to the report.            Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</p>						
Manufacturer's Declaration per sub-clause 4.2.5 of IEC60068-2-1:						
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 .....				<input checked="" type="checkbox"/> <b>Yes</b> <input type="checkbox"/> <b>Not applicable</b>		
When differences exist; they shall be identified in the General product information section.						
Name and address of factory (ies):		<ol style="list-style-type: none"> <li>Zhangjiagang Hua Yang Electronics Co., Ltd. Zhao Feng Industrial Zone, Leyu Town Zhangjiagang, 215622 Jiangsu, P.R. China</li> <li>TDK-Lambda (China) Electronics Co., Ltd. No. 95, Zhujiang Road, Xinwu District, Wuxi 214028 Jiangsu, P.R. China</li> <li>TDK-Lambda Malaysia Sdn. Bhd PLO33, Kawasan Perindustrian Senai, 81400 Senai Johor Malaysia</li> </ol>				
GENERAL PRODUCT INFORMATION:						
Product Description –						
This report is based on original CBTR 50331557 001. Refer to original report 50331557 001 for details.						
For rating differences between the models see below tables:						
Series Model	I/p voltage (Vac)	Freq (Hz)	I/p current (A)	Minimal output	Rated output (typical)	Maximum output
<b>Convection cooling condition</b>						
CUS600M1-12xxxxxxx CME600A1-12xxxxxxx	100-240	50-60	4.5	10.8Vdc	12Vdc	12.9Vdc
				10.8Vdc – 12.9Vdc Normal Rating: 33.4A, 400.8W Max. Peak Rating: 50A, 600W Max. (Dynamic)		
CUS600M1-19xxxxxxx CME600A1-19xxxxxxx	100-240	50-60	4.5	17.1Vdc	19Vdc	20.5Vdc
				17.1Vdc – 20.5Vdc Normal Rating: 21.1A, 400.9W Max. Peak Rating: 31.6A, 600.4W Max. (Dynamic)		
CUS600M1-24xxxxxxx CME600A1-24xxxxxxx	100-240	50-60	4.5	21.6Vdc	24Vdc	25.9Vdc
				21.6Vdc – 25.9Vdc, Normal Rating: 16.7A, 400.8W Max. Peak Rating: 25A, 600W Max. (Dynamic)		
CUS600M1-28xxxxxxx CME600A1-28xxxxxxx	100-240	50-60	4.5	25.2Vdc	28Vdc	30.2Vdc
				25.2Vdc – 30.2Vdc, Normal Rating: 14.3A, 400.4W Max. Peak Rating: 21.5A, 602W Max. (Dynamic)		

CUS600M1-32xxxxxxx CME600A1-32xxxxxxx	100-240	50-60	4.5	28.8Vdc	32Vdc	34.5Vdc
				28.8Vdc – 34.5Vdc, Normal Rating: 12.5A, 400W Max. Peak Rating: 18.8A, 601.6W Max. (Dynamic)		
CUS600M1-36xxxxxxx CME600A1-36xxxxxxx	100-240	50-60	4.5	32.4Vdc	36Vdc	38.8Vdc
				32.4Vdc – 38.8Vdc, Normal Rating: 11.1A, 399.6W Max. Peak Rating: 16.7A, 601.2W Max. (Dynamic)		
CUS600M1-48xxxxxxx CME600A1-48xxxxxxx	100-240	50-60	4.5	43.2 Vdc	48 Vdc	51.8 Vdc
				43.2Vdc – 51.8Vdc, Normal Rating: 8.4A, 403.2W Max. Peak Rating: 12.6A, 604.8W Max. (Dynamic)		
CUS500M1-12xxxxxxx CME500A-12xxxxxxx	100-240	50-60	4.0	10.8 Vdc	12 Vdc	12.9 Vdc
				10.8Vdc – 12.9Vdc, Normal rating: 25A, 300W Max. Peak rating: 41.7A, 500.4W Max. (Dynamic)		
CUS500M1-19xxxxxxx CME500A-19xxxxxxx	100-240	50-60	4.0	17.1 Vdc	19 Vdc	20.5 Vdc
				17.1Vdc – 20.5Vdc, Normal rating: 15.8A, 300.2W Max. Peak rating: 26.4A, 501.6W Max. (Dynamic)		
CUS500M1-24xxxxxxx CME500A-24xxxxxxx	100-240	50-60	4.0	21.6 Vdc	24 Vdc	25.9 Vdc
				21.6Vdc – 25.9Vdc, Normal Rating: 12.5A, 300W Max. Peak Rating: 20.9A, 501.6W Max. (Dynamic)		
CUS500M1-28xxxxxxx CME500A-28xxxxxxx	100-240	50-60	4.0	25.2 Vdc	28 Vdc	30.2 Vdc
				25.2Vdc – 30.2Vdc, Normal Rating: 10.7A, 299.6W Max. Peak Rating: 17.9A, 501.2W Max. (Dynamic)		
CUS500M1-32xxxxxxx CME500A-32xxxxxxx	100-240	50-60	4.0	28.8Vdc	32Vdc	34.5Vdc
				28.8Vdc – 34.5Vdc, Normal Rating: 9.4A, 300.8W Max. Peak Rating: 15.7A, 502.4W Max. (Dynamic)		
CUS500M1-36xxxxxxx CME500A-36xxxxxxx	100-240	50-60	4.0	32.4Vdc	36Vdc	38.8Vdc
				32.4Vdc – 38.8Vdc, Normal Rating: 8.3A, 298.8W Max. Peak Rating: 13.9A, 500.4W Max. (Dynamic)		
CUS500M1-48xxxxxxx CME500A-48xxxxxxx	100-240	50-60	4.0	43.2Vdc	48Vdc	51.8Vdc
				43.2Vdc – 51.8Vdc, Normal Rating: 6.3A, 302.4W Max. Peak Rating: 10.5A, 504W Max. (Dynamic)		
<b>Forced air cooling condition (airflow: air velocity 2.7m/s &amp; air volume 28.6CFM)</b>						
CUS600M1-12xxxxxxx CME600A1-12xxxxxxx	100-240	50-60	7.0	10.8Vdc	12Vdc	12.9Vdc
				50A	50A	46.6A
CUS600M1-19xxxxxxx	100-240	50-60	7.0	17.1Vdc	19Vdc	20.5Vdc

CME600A1-19xxxxxxx				31.6A	31.6A	29.3A
CUS600M1-24xxxxxxx	100-240	50-60	7.0	21.6Vdc	24Vdc	25.9Vdc
CME600A1-24xxxxxxx				25A	25A	23.2A
CUS600M1-28xxxxxxx	100-240	50-60	7.0	25.2Vdc	28Vdc	30.2Vdc
CME600A1-28xxxxxxx				21.5A	21.5A	20.0A
CUS600M1-32xxxxxxx	100-240	50-60	7.0	28.8Vdc	32Vdc	34.5Vdc
CME600A1-32xxxxxxx				18.8A	18.8A	17.5A
CUS600M1-36xxxxxxx	100-240	50-60	7.0	32.4Vdc	36Vdc	38.8Vdc
CME600A1-36xxxxxxx				16.7A	16.7A	15.5A
CUS600M1-48xxxxxxx	100-240	50-60	7.0	43.2Vdc	48Vdc	51.8Vdc
CME600A1-48xxxxxxx				12.6A	12.6A	11.7A
CUS500M1-12xxxxxxx	<b>100-240</b>	<b>50-60</b>	<b>6.0</b>	<b>10.8Vdc</b>	<b>12Vdc</b>	<b>12.9Vdc</b>
CME500A-12xxxxxxx				<b>41.7A</b>	<b>41.7A</b>	<b>38.8A</b>
CUS500M1-19xxxxxxx	<b>100-240</b>	<b>50-60</b>	<b>6.0</b>	<b>17.1Vdc</b>	<b>19Vdc</b>	<b>20.5Vdc</b>
CME500A-19xxxxxxx				<b>26.4A</b>	<b>26.4A</b>	<b>24.5A</b>
CUS500M1-24xxxxxxx	<b>100-240</b>	<b>50-60</b>	<b>6.0</b>	<b>21.6Vdc</b>	<b>24Vdc</b>	<b>25.9Vdc</b>
CME500A-24xxxxxxx				<b>20.9A</b>	<b>20.9A</b>	<b>19.4A</b>
CUS500M1-28xxxxxxx	<b>100-240</b>	<b>50-60</b>	<b>6.0</b>	<b>25.2Vdc</b>	<b>28Vdc</b>	<b>30.2Vdc</b>
CME500A-28xxxxxxx				<b>17.9A</b>	<b>17.9A</b>	<b>16.6A</b>
CUS500M1-32xxxxxxx	<b>100-240</b>	<b>50-60</b>	<b>6.0</b>	<b>28.8Vdc</b>	<b>32Vdc</b>	<b>34.5Vdc</b>
CME500A-32xxxxxxx				<b>15.7A</b>	<b>15.7A</b>	<b>14.6A</b>
CUS500M1-36xxxxxxx	<b>100-240</b>	<b>50-60</b>	<b>6.0</b>	<b>32.4Vdc</b>	<b>36Vdc</b>	<b>38.8Vdc</b>
CME500A-36xxxxxxx				<b>13.9A</b>	<b>13.9A</b>	<b>12.9A</b>
CUS500M1-48xxxxxxx	<b>100-240</b>	<b>50-60</b>	<b>6.0</b>	<b>43.2Vdc</b>	<b>48Vdc</b>	<b>51.8Vdc</b>
CME500A-48xxxxxxx				<b>10.5A</b>	<b>10.5A</b>	<b>9.8A</b>
Remark: Operating temp.: up to +70°C (operating temperature depending on equipment's load, mounting position, for details refer to instruction manual).						

**Description of changes:**

The previous approved models were modified as following:

- Add additional models CUS500M1-**zxxxxxxx**, CME500A-**zxxxxxxx** (**z** = 12, 19, 24, 28, 32, 36 or 48; **xxxxxxx** = /T, /J, /M, /C, /C2, /SF, /G, /EF, other alphanumeric character, symbol or blank), which are similar to original models CUS600M1-**zxxxxxxx**, CME600A1-**zxxxxxxx** with following differences:
  - o Rated input current, output ratings.
  - o Add alternate heatsink combination 2. See below table for details:

Parts	Combination 1 (CUS600M1 heatsink)	Combination 2 (tested in this report)
KFA1 (Pri. side)	CA878-32-01x	CA922-32-01x
KFA2 (Pri. side)	CA878-32-03x	without
KFA3 (Sec. side)	CA878-32-05x (12V) (optional) CA878-32-04x (others) (optional)	without
HS201 & HS204 (Sec. side)	TZDD3271 (optional)	without
KKE1 (Sec. side)	CA878-33-01x (optional)	without

- o Component parameter adjustment for MOSFET (Q1), Diode (D1), Primary Electrolytic Capacitor (C6) and Resistor (R108).
- Add additional factory TDK-Lambda Malaysia Sdn. Bhd, see factory list on page 9 for details.
- Correct typo error of external creepage from 5.0 mm to 8.0 mm for optocoupler.

The models CUS500M1-**zxxxxxxx** and CME500A-**zxxxxxxx** are identical except for the model designation.

All applicable tests were performed. Refer to above model list, test case and measurement section for details.

**History of amendments and modifications:**

Ref. No. 50331557 001, dated 2020-04-02 (original test report)

Ref. No. 50331557 002, dated "see cover page" (1st modification)

**Definition of variable(s):**

CUS600M1-**zxxxxxxx**, CME600A1-**zxxxxxxx**, CUS500M1-**zxxxxxxx**, CME500A-**zxxxxxxx** (**z** = 12, 19, 24, 28, 32, 36 or 48; **xxxxxxx** = /T, /J, /M, /C, /C2, /SF, /G, /EF, other alphanumeric character, symbol or blank)

Variable:	Range of variable:	Content:
<b>z</b>	12, 19, 24, 28, 32, 36 or 48	Denoting output voltage from 12 Vdc to 48 Vdc.
<b>xxxxxxx</b>	blank	Denoting for Standard model.
	/T	Denoting terminal block connector.
	/J	Denoting JST connector.
	/M	Denoting molex connector.
	/C or /CO	Denoting single side PWB coating.
	/C2 or /CO2	Denoting double side PWB coating.
	/SF	Denoting single fuse.
	/G	Denoting low earth leakage current.
	/EF	Denoting end fan. It is for class I construction only.
other alphanumeric character, symbol	Used for market purposes, no construction differences and no safety impact.	