



Test Report issued under the responsibility of:



<b>TEST REPORT</b> <b>IEC 62368-1</b> <b>Audio/video, information and communication technology equipment</b> <b>Part 1: Safety requirements</b>	
Report Number .....	50283317 001
Date of issue .....	2019-09-26
Total number of pages .....	139 (excluding attachments, refer to page 3)
Applicant's name.....	WUXI TDK-LAMBDA ELECTRONICS CO LTD
Address .....	Lot 115 High-Tech Zone Wuxi Jiangsu, P. R. China
<b>Test specification:</b>	
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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<b>General disclaimer:</b>	
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 .....	<b>TDK-Lambda</b>
Manufacturer .....	Same as applicant
Model/Type reference .....	<b>CUS600My-zxxxxxxx , CME600Ay-zxxxxxxx</b> (y = blank; z = 12, 19, 24, 28, 32, 36 or 48; xxxxxxxx =/ADJ, /T, /J, /M, /C, /C2, /SF, /G, /EF, other alphanumeric character, symbol or blank) Refer to page 12 for definition of variables
Ratings .....	AC input: 100-240V, 50-60Hz, 4.5A or 7.0A DC output: 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 - National Differences (31 pages)
- ATTACHMENT - Technical documentation (35 pages)
- ATTACHMENT - Photo documentation (12 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 CUS600M-12, CUS600M-19, CUS600M-28, CUS600M-32 and CUS600M-48 to represent others.

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).

The load conditions used during testing: Maximum normal load according to clause B.2.5 for this equipment is the operation with the maximum specified DC-load with maximum power condition according to the manufacturer specified.

The equipment is operated up to 5000m above sea level as declared by manufacturer. Clearances have been evaluated according to IEC 60664-1 table A.2 with a multiplication factor of 1.48 throughout this report.

The test samples are pre-production without serial numbers.

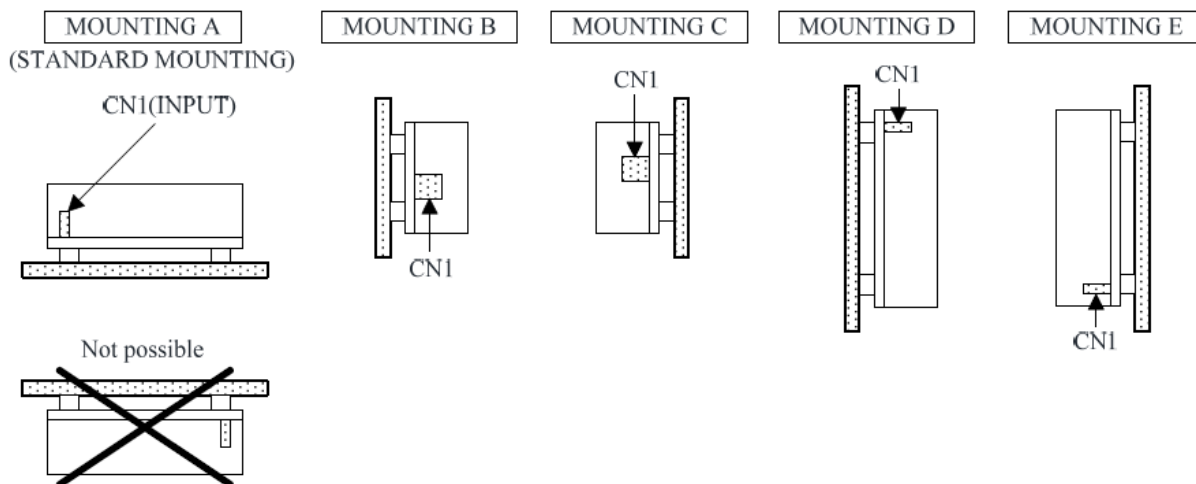
**Uncertainty:**

When determining for test conclusion, measurement uncertainty of tests has been considered.

The determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

**Testing location:**

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

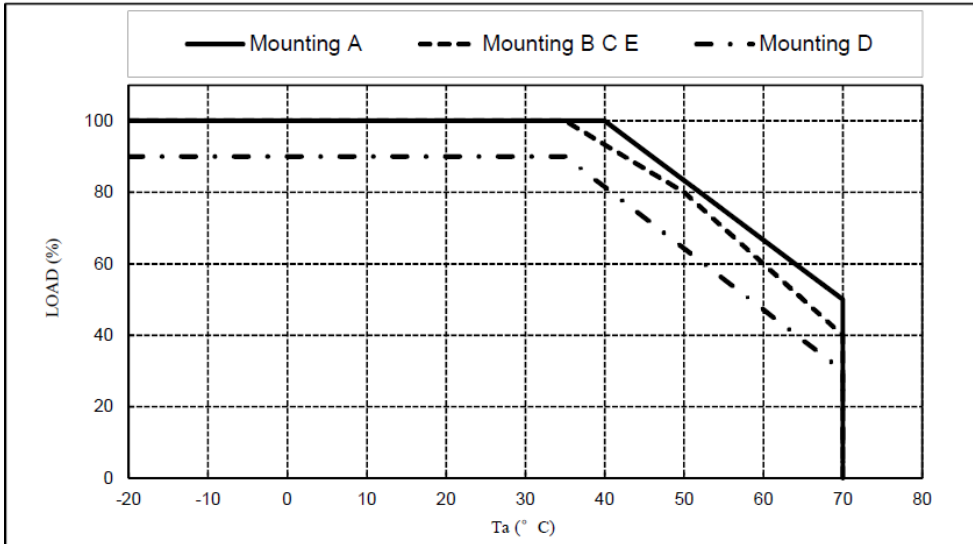
**MOUNTING DIRECTIONS**

**Derating Curve:**

**Convection cooling condition:**

Condition A: Main output is derating according the following, standby mode power is no load.

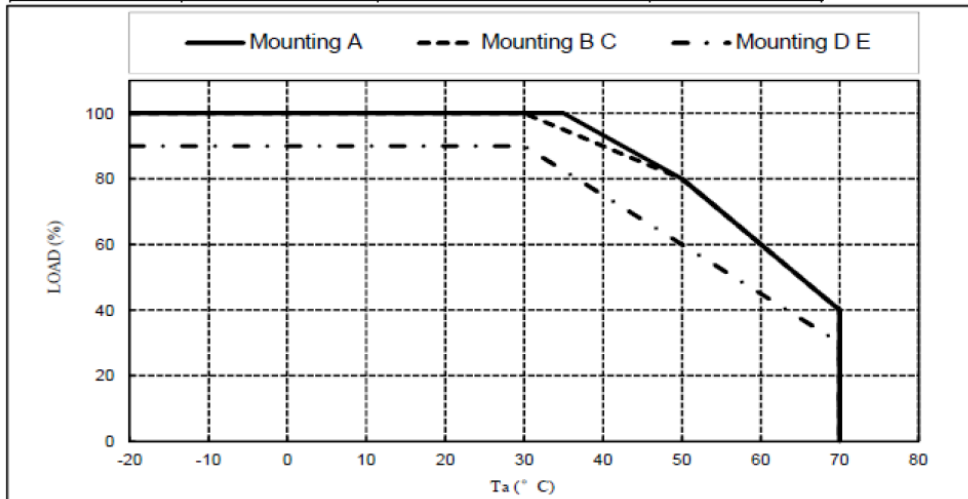
Ta (°C)	Mounting A	Mounting B C E	Mounting D
	LOAD (%)	LOAD (%)	LOAD (%)
-20 - +35	100	100	90
40	100	93.3	81.4
50	83.3	80	64.3
60	66.7	60	47.1
70	50	40	30



Condition B: Main output and standby mode power is derating according the following.

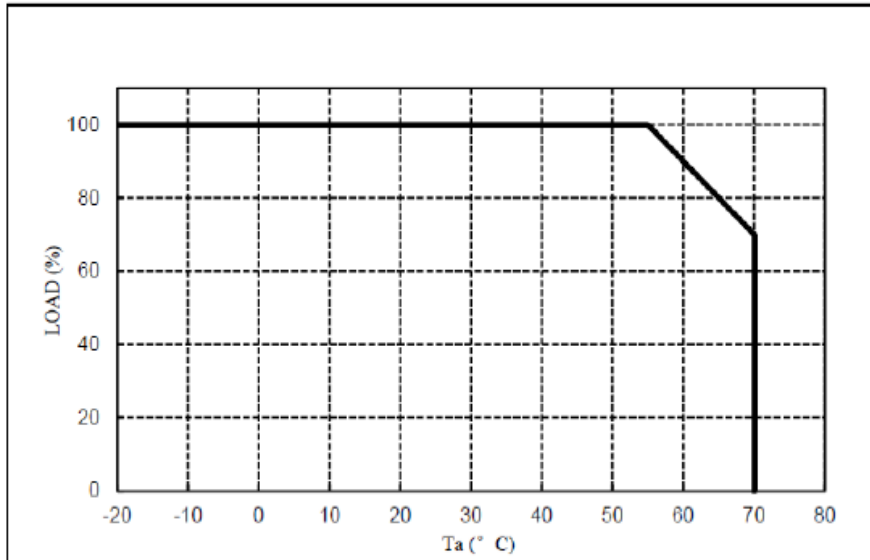
MODEL: ALL MODELS

Ta (°C)	Mounting A	Mounting B C	Mounting D E
	LOAD (%)	LOAD (%)	LOAD (%)
-20 - +30	100	100	90
35	100	95	82.5
40	93.3	90	75
50	80	80	60
60	60	60	45
70	40	40	30



**Forced air cooling condition:**

Ta (°C)	LOAD (%)
-20 - +55	100
60	93.4
70	70



#### 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

Note(s):

Countries outside the CB Scheme membership may also accept this report.

##### The product fulfils the requirements of

IEC 62368-1:2014 (Second Edition),

EN 62368-1:2014+A11:2017 and

CSA/UL 62368-1:2014

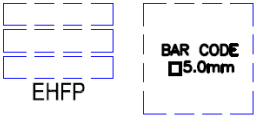
**Copy of marking plate:**

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

<Representative>

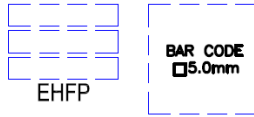
**Marking for CUS600M series**

**CUS600M - 12**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 12 V<sub>DC</sub> 50 A**



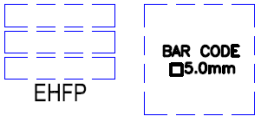
**TDK·Lambda**  
 MADE IN CHINA

**CUS600M - 19**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 19 V<sub>DC</sub> 31.6 A**



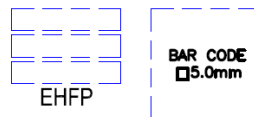
**TDK·Lambda**  
 MADE IN CHINA

**CUS600M - 24**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 24 V<sub>DC</sub> 25 A**



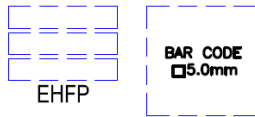
**TDK·Lambda**  
 MADE IN CHINA

**CUS600M - 28**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 28 V<sub>DC</sub> 21.5 A**



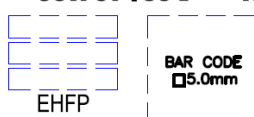
**TDK·Lambda**  
 MADE IN CHINA

**CUS600M - 32**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 32 V<sub>DC</sub> 18.8 A**




**TDK·Lambda**  
 MADE IN CHINA

**CUS600M - 36**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 36 V<sub>DC</sub> 16.7 A**



**TDK·Lambda**  
 MADE IN CHINA

**CUS600M - 48**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 48 V<sub>DC</sub> 12.6 A**





**TDK·Lambda**  
 MADE IN CHINA

Cont.

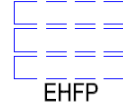

Marking for CME600A series

**CME600A-12**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 12 V<sub>DC</sub> 50 A**



**TDK·Lambda**  
 MADE IN CHINA

**CME600A - 19**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 19 V<sub>DC</sub> 31.6 A**

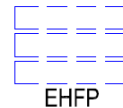

**TDK·Lambda**  
 MADE IN CHINA

**CME600A - 24**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 24 V<sub>DC</sub> 25 A**



**TDK·Lambda**  
 MADE IN CHINA

**CME600A - 28**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 28 V<sub>DC</sub> 21.5 A**

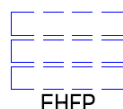

**TDK·Lambda**  
 MADE IN CHINA

**CME600A - 32**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 32 V<sub>DC</sub> 18.8 A**

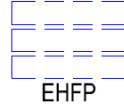

**TDK·Lambda**  
 MADE IN CHINA

**CME600A - 36**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 36 V<sub>DC</sub> 16.7 A**

**TDK·Lambda**  
 MADE IN CHINA

**CME600A - 48**  
**INPUT : 100 - 240VAC ~ 7.0 A**  
**50 - 60Hz**  
**OUTPUT : 48 V<sub>DC</sub> 12.6 A**

**TDK·Lambda**  
 MADE IN CHINA

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

TEST ITEM PARTICULARS:	
Classification of use by..... :	<input type="checkbox"/> Ordinary person <input checked="" type="checkbox"/> Instructed person <input 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"/> None
Supply Connection – Type .....	<input 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 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 type="checkbox"/> mating connector <input checked="" type="checkbox"/> other: Terminal block
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 .....	Up to 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) .....	<7



<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 .....				2019-06-01			
Date (s) of performance of tests .....				2019-06-01 to 2019-08-19			
<b>GENERAL REMARKS:</b>							
<p>"(See Enclosure #)" refers to additional information appended to the report.                  "(See ATTACHMENT #)" refers to additional information appended to the report.                  "(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</p>							
<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC60068-2-1:</b>							
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>			
<b>When differences exist; they shall be identified in the General product information section.</b>							
<b>Name and address of factory (ies).....</b>				1. Wuxi TDK-Lambda Electronics Co., Ltd. No. 6 Xing Chuang Er Lu Wuxi, Jiangsu 214028, P. R. China  2. Zhangjiagang Hua Yang Electronics Co., Ltd. Zhao Feng Industrial Zone, Leyu Town, Zhangjiagang, Jiangsu 215622, P. R. China			
<b>GENERAL PRODUCT INFORMATION:</b>							
<b>General product information:</b>							
The PSU is a component type switching mode power supplies intended for the earthed construction or non-earthed construction of medical equipment.							
<ul style="list-style-type: none"> <li>For earthed construction (Class I), the PSU need to be reliably earthed and professionally installed and fixed with metal screws.</li> <li>For non-earthed construction (Class II), no earthing connection is required. The PSU need to be fixed so, that it is insulated from any unearthed accessible conductive part by reinforced insulation.</li> </ul>							
Model CME600Ay-zxxxxxxx is identical to model CUS600My-zxxxxxxx except for model name.							
All models are identical, except for the optional chassis, cover, turns of Transformer and the rating of some components which results in different output ratings. See Model List below for details.							
<b>For rating differences between the models see below tables:</b>							
Series Model	I/p voltage (Vac)	Freq (Hz)	I/p current (A)	Output Channel	Minimal output	Rated output (typical)	Maximum output
<b>Convection cooling condition</b>							

CUS600My-12xxxxxxx CME600Ay-12xxxxxxx	100-240	50-60	4.5	Main output	10.8Vdc	12Vdc	12.9Vdc
					10.8Vdc – 12.9Vdc Normal Rating: 33.4A, 400.8W Max. Peak Rating: 50A, 600W Max. (Dynamic)		
					Standby power (Optional)		
					5Vdc (Rated)		
					2A (Rated)		
CUS600My-19xxxxxxx CME600Ay-19xxxxxxx	100-240	50-60	4.5	Main output	17.1Vdc	19Vdc	20.5Vdc
					17.1Vdc – 20.5Vdc Normal Rating: 21.1A, 400.9W Max. Peak Rating: 31.6A, 600.4W Max. (Dynamic)		
					Standby power (Optional)		
					5Vdc (Rated)		
					2A (Rated)		
CUS600My-24xxxxxxx CME600Ay-24xxxxxxx	100-240	50-60	4.5	Main output	21.6Vdc	24Vdc	25.9Vdc
					21.6Vdc – 25.9Vdc, Normal Rating: 16.7A, 400.8W Max. Peak Rating: 25A, 600W Max. (Dynamic)		
					Standby power (Optional)		
					5Vdc (Rated)		
					2A (Rated)		
CUS600My-28xxxxxxx CME600Ay-28xxxxxxx	100-240	50-60	4.5	Main output	25.2Vdc	28Vdc	30.2Vdc
					25.2Vdc – 30.2Vdc, Normal Rating: 14.3A, 400.4W Max. Peak Rating: 21.5A, 602W Max. (Dynamic)		
					Standby power (Optional)		
					5Vdc (Rated)		
					2A (Rated)		
CUS600My-32xxxxxxx CME600Ay-32xxxxxxx	100-240	50-60	4.5	Main output	28.8Vdc	32Vdc	34.5Vdc
					28.8Vdc – 34.5Vdc, Normal Rating: 12.5A, 400W Max. Peak Rating: 18.8A, 601.6W Max. (Dynamic)		
					Standby power (Optional)		
					5Vdc (Rated)		
					2A (Rated)		
CUS600My-36xxxxxxx CME600Ay-36xxxxxxx	100-240	50-60	4.5	Main output	32.4Vdc	36Vdc	38.8Vdc
					32.4Vdc – 38.8Vdc, Normal Rating: 11.1A, 399.6W Max. Peak Rating: 16.7A, 601.2W Max. (Dynamic)		
					Standby power (Optional)		
					5 Vdc (Rated)		
					2 A (Rated)		
	100-240		4.5		43.2 Vdc	48 Vdc	51.8 Vdc

CUS600My-48xxxxxxx CME600Ay-48xxxxxxx		50-60		Main output	43.2Vdc – 51.8Vdc, Normal Rating: 8.4A, 403.2W Max, Peak Rating: 12.6A, 604.8W Max. (Dynamic)		
				Standby power (Optional)	5 Vdc (Rated)		
					2A (Rated)		
<b>Forced air cooling condition (airflow: air velocity 2.7m/s &amp; air volume 28.6CFM)</b>							
CUS600My-12xxxxxxx CME600Ay-12xxxxxxx	100-240	50-60	7.0	Main output	10.8Vdc	12Vdc	12.9Vdc
					50A	50A	46.6A
				Standby power (Optional)	5Vdc (Rated)		
2A (Rated)							
CUS600My-19xxxxxxx CME600Ay-19xxxxxxx	100-240	50-60	7.0	Main output	17.1Vdc	19Vdc	20.5Vdc
					31.6A	31.6A	29.3A
				Standby power (Optional)	5Vdc (Rated)		
2A (Rated)							
CUS600My-24xxxxxxx CME600Ay-24xxxxxxx	100-240	50-60	7.0	Main output	21.6Vdc	24Vdc	25.9Vdc
					25A	25A	23.2A
				Standby power (Optional)	5Vdc (Rated)		
2A (Rated)							
CUS600My-28xxxxxxx CME600Ay-28xxxxxxx	100-240	50-60	7.0	Main output	25.2Vdc	28Vdc	30.2Vdc
					21.5A	21.5A	20.0A
				Standby power (Optional)	5Vdc (Rated)		
2A (Rated)							
CUS600My-32xxxxxxx CME600Ay-32xxxxxxx	100-240	50-60	7.0	Main output	28.8Vdc	32Vdc	34.5Vdc
					18.8A	18.8A	17.5A
				Standby power (Optional)	5Vdc (Rated)		
2A (Rated)							
CUS600My-36xxxxxxx CME600Ay-36xxxxxxx	100-240	50-60	7.0	Main output	32.4Vdc	36Vdc	38.8Vdc
					16.7A	16.7A	15.5A
				Standby power (Optional)	5Vdc (Rated)		
2A (Rated)							
CUS600My-48xxxxxxx CME600Ay-48xxxxxxx	100-240	50-60	7.0	Main output	43.2Vdc	48Vdc	51.8Vdc
					12.6A	12.6A	11.7A
				Standby power (Optional)	5Vdc (Rated)		
2A (Rated)							
Remark:							

Operating temp.: up to +70°C (operating temperature depending on equipment's load, mounting position, for details refer to instruction manual). / EF the standby current (2A) is including the fan current (0.3A).

**Additional Information:**

- The product is a component type switching power supply, the overall compliance shall be investigated in the complete end system/equipment, in particular as:
  - Fire enclosure
  - Mechanical enclosure
  - Electrical enclosure
- Some components are **pre-certified**, which have been evaluated according to the relevant requirements of IEC 62368-1, are employed in this product. Their suitability of use has been checked according to clauses 4.1.1 and 4.1.2.
- The product is to be operated up to 5000 m above sea level, the minimum clearances were multiplied by the factor given in Table A.2 of IEC 60664-1: 1.48.
- The label is draft of artwork for marking plates pending approval by National Certification Bodies and it shall not be affixed to products prior to such an approval.
- The input circuit includes one fuse (F1A) in the Line conductor and the other fuse (F1B) 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.
- The metal enclosure of Class II equipment should be evaluated by end system.
- Recommend by manufacturer as below:

The components listed in the following table must not exceed the temperatures given. To determine the component temperatures the heating test must be conducted in accordance with the requirements of the standard in question. Consideration should also be given to the requirements of other safety standards. Test requirements include: PSU to be fitted in its end-use equipment and operated under the most adverse conditions permitted in the end-use equipment handbook/specification and which will result in the highest temperatures in the PSU. To determine the most adverse conditions consideration should be given to the end use equipment maximum operating ambient, the PSU loading and input voltage, ventilation, end use equipment orientation, the position of doors & covers etc. Temperatures should be monitored using type K fine wire thermocouples (secured with cyanoacrylate adhesive or similar) placed on the hottest part of the component (out of any direct airflow) and the equipment should be run until all temperatures have stabilized.

Circuit Ref.	Description	Max. Temperature (°C)
CN1	Input Connector	105
C1	X Capacitor	100
L2	Common Mode Choke Winding	130
C5,C52	Y Capacitor	125
BD1	Bridge Diode	150
L4	Boost Choke Winding	155
C6	Boost Capacitor	105
Q1	Boost FET	150
T1	Main Transformer Winding	130
T2	Standby Transformer Winding	130
PC103,PC106	Opto-Coupler	110
C51A,C51B,51C, C51D,C51E,C51F	Electrolytic Capacitors	105 (12V,32V,36V,48V) 125 (19V,24V,28V)
C61	Electrolytic Capacitor	105

Note:

PSU = Power Supply Unit

**Markings and Instructions**

- The installation instruction is provided in English, information regarding:
  - Electrical specification
  - Maximum operating temperature
- Fuse Identification (See subclause F.3.5.3): F1A/F1B : T1.6A 250Vac

**Definition of variable(s):**

(y = blank; z = 12, 19, 24, 28, 32, 36 or 48; xxxxxxx =/ADJ, /T, /J, /M, /C, /C2, /SF, /G, /EF, other alphanumeric character, symbol or blank)

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

**Additional application considerations – (Considerations used to test a component or sub-assembly) –**

The equipment is a component intended for incorporation in audio/video, information and communication technology equipment, the overall compliance shall be investigated in the complete audio/video, information and communication technology equipment.

The power supply cord set was not evaluated together with the equipment. The suitable certified power supply cord set has to be provided in the country where the equipment is sold.

<b>ENERGY SOURCE IDENTIFICATION AND CLASSIFICATION TABLE:</b>	
(Note 1: Identify the following six (6) energy source forms based on the origin of the energy.) (Note 2: The identified classification e.g., ES2, TS1, should be with respect to its ability to cause pain or injury on the body or its ability to ignite a combustible material. Any energy source can be declared Class 3 as a worse case classification e.g. PS3, ES3.)	
<b>Electrically-caused injury (Clause 5):</b> (Note: Identify type of source, list sub-assembly or circuit designation and corresponding energy source classification) Example: +5 V dc input <span style="float: right;">ES1</span>	
<b>Source of electrical energy</b>	<b>Corresponding classification (ES)</b>
Primary circuits (before transformer T1/T2)	ES3
Secondary circuits (After transformer T1, before Q201/Q202)	ES2
Secondary circuits (After Q201/Q202)	ES1
Secondary circuits (After T2)	ES1
<b>Electrically-caused fire (Clause 6):</b> (Note: List sub-assembly or circuit designation and corresponding energy source classification) Example: Battery pack (maximum 85 watts): <span style="float: right;">PS2</span>	
<b>Source of power or PIS</b>	<b>Corresponding classification (PS)</b>
All primary and secondary circuits except CN61 output	PS3
<b>Injury caused by hazardous substances (Clause 7)</b> (Note: Specify hazardous chemicals, whether produces ozone or other chemical construction not addressed as part of the component evaluation.) Example: Liquid in filled component <span style="float: right;">Glycol</span>	
<b>Source of hazardous substances</b>	<b>Corresponding chemical</b>
N/A	N/A
<b>Mechanically-caused injury (Clause 8)</b> (Note: List moving part(s), fan, special installations, etc. & corresponding MS classification based on Table 35.) Example: Wall mount unit <span style="float: right;">MS2</span>	
<b>Source of kinetic/mechanical energy</b>	<b>Corresponding classification (MS)</b>
N/A	N/A
<b>Thermal burn injury (Clause 9)</b> (Note: Identify the surface or support, and corresponding energy source classification based on type of part, location, operating temperature and contact time in Table 38.) Example: Hand-held scanner – thermoplastic enclosure <span style="float: right;">TS1</span>	
<b>Source of thermal energy</b>	<b>Corresponding classification (TS)</b>
To be determined by end-product use	To be determined by end-product use
<b>Radiation (Clause 10)</b> (Note: List the types of radiation present in the product and the corresponding energy source classification.) Example: DVD – Class 1 Laser Product <span style="float: right;">RS1</span>	
<b>Type of radiation</b>	<b>Corresponding classification (RS)</b>
N/A	N/A