



**TEST REPORT**  
**IEC 62384**  
**DC or AC supplied electronic control gear for LED modules**  
**Performance requirements**

**Report Number**.....: LCSB060523061S

**Date of issue**.....: June 26, 2023

**Total number of pages**.....: 8 pages

**Name of Testing Laboratory**

**preparing the Report**.....: **Shenzhen Southern LCS Compliance Testing Laboratory Ltd.**

**Applicant's name**.....: Aurora (Shanghai) Technology Co., Ltd

**Address**.....: Room 221, 2F, Building 6, No.7001, Zhongchun Road, Minhang District, Shanghai

**Test specification:**

**Standard**.....: IEC 62384:2020

**Test procedure**.....: Test Report

**Non-standard test method**.....: N/A

**TRF template used**.....: IECEE OD-2020-F1:2022, Ed.1.5

**Test Report Form No**.....: IEC62384E

**Test Report Form(s) Originator**.....: IMQ S.p.A.

**Master TRF**.....: Dated 2022-12-02

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Shenzhen Southern LCS Compliance Testing Laboratory Ltd.

Add: 101-201, No.39 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China

Tel: +(86) 0755-29871520 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



<b>Test item description.....:</b>	LED Driver	
<b>Trade Mark.....:</b>	N/A	
<b>Manufacturer.....:</b>	Shenzhen DOME Microelectronics Co., Ltd.	
<b>Address.....:</b>	Plant 401, Building A, No. 10, East Shangxue Science and Technology Industrial City, Xinxue Community, Bantian Street, Longgang District, Shenzhen	
<b>Model/Type reference.....:</b>	JDE7	
<b>Ratings.....:</b>	Input:220-240V~, 50/60Hz, 0.06A Output: 24-40Vdc, U <sub>out</sub> :45Vdc, 200mA, max.7W, ta.45°C, tc.75°C	
<input checked="" type="checkbox"/>	<b>Testing Laboratory:</b>	
<b>Testing location/ address.....:</b>	Shenzhen Southern LCS Compliance Testing Laboratory Ltd. 101-201, No.39 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China	
<b>Tested by.....:</b>	Yeoh Zhang (Engineer)	<i>Yeoh Zhang</i>
<b>Check by.....:</b>	Torres He (Director)	<i>Torres He</i>
<b>Approved by.....:</b>	Jesse Liu (Manager)	<i>Jesse Liu</i>
<b>List of Attachments (including a total number of pages in each attachment):</b>		
Attachment No. 1: Photo documentation.		
<b>Summary of testing:</b>		
<b>Tests performed (name of test and test clause):</b>	<b>Testing location:</b>	
IEC 62384:2020	Shenzhen Southern LCS Compliance Testing Laboratory Ltd. 101-201, No.39 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, China	











**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.

On the LED driver surface:

<b>Input</b> <b>L</b>  <b>N</b>	<b>LED Driver</b> <b>Model:JDE7</b> <b>Input:220-240V~, 50/60Hz, 0.06A</b> <b>Output: 24-40Vdc, Uout:45Vdc, 200mA, max.7W</b>       <b>SELV ta.45°C, tc.75°C</b> <b>Shenzhen DOME Microelectronics Co., Ltd.</b> <b>Plant 401, Building A, No. 10, East Shangxue Science and</b> <b>Technology Industrial City, Xinxue Community, Bantian Street,</b> <b>Longgang District, Shenzhen</b> <b>Importer No.: xxxxxxxx      MADE IN CHINA</b>	<b>Output</b>  <b>LED+</b>  <b>LED-</b>
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**Remarks:**

Height of WEEE mark at least 7mm, height of other mark at least 5mm, height of letters and numerals at least 2mm.



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<b>Test item particulars</b> ..... :									
<b>Classification of installation and use</b> ..... :	Independent								
<b>Supply Connection</b> ..... :	Supply cord								
<b>Protection Class</b> ..... :	N/A								
<b>Degree of Protection</b> ..... :	N/A								
<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..... :	2023-06-01								
Date (s) of performance of tests..... :	2023-06-01 ~ 2023-06-21								
<b>General remarks:</b>									
This report shall not be reproduced except in full without the written approval of the testing laboratory. The test results presented in this report relate only to the item tested. "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Clause numbers with "*" were not within the scope of CNAS recognition.									
<b>Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</b>									
According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.									
Modified Information									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Version</th> <th style="width: 25%;">Report No.</th> <th style="width: 25%;">Revision Date</th> <th style="width: 25%;">Summary</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">V1.0</td> <td style="text-align: center;">LCSB060523061S</td> <td style="text-align: center;">/</td> <td style="text-align: center;">Original Version</td> </tr> </tbody> </table>		Version	Report No.	Revision Date	Summary	V1.0	LCSB060523061S	/	Original Version
Version	Report No.	Revision Date	Summary						
V1.0	LCSB060523061S	/	Original Version						
<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC60335-1:</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 type="checkbox"/> <b>Yes</b> <input checked="" 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> ..... : Same as manufacturer									





IEC 62384			
Clause	Requirement + Test	Result - Remark	Verdict
<b>5</b>	<b>CLASSIFICATION</b>		<b>P</b>
<b>5.1</b>	<b>Classification according to the load</b>		<b>P</b>
	a) single value load control gear.....:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	P
	b) multiple value load control gear.....:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A
<b>5.2</b>	<b>Classification according to the output voltage</b>		<b>N/A</b>
	a) control gear with stabilized output voltage.....:	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A
	b) control gear without stabilized output voltage.....:	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A
<b>5.3</b>	<b>Classification according to the output current</b>		<b>P</b>
	a) control gear with stabilized output current.....:	Yes <input type="checkbox"/> No <input type="checkbox"/>	P
	b) control gear without stabilized output current.....:	Yes <input type="checkbox"/> No <input type="checkbox"/>	N/A
<b>6</b>	<b>MARKING</b>		<b>P</b>
<b>6.1</b>	<b>Mandatory marking</b>		<b>P</b>
6.1.1	Circuit power factor.....:	0.5	P
6.1.2	a) temperature range.....:	Tc.75°C	P
	b) stabilized output voltage		N/A
	c) stabilized output current		P
	d) operation with a mains supply dimmer		N/A
	e) operation mode		N/A
	f) rated minimum output power.....:		N/A
<b>6.2</b>	<b>Optional markings</b>		<b>P</b>
	a) total circuit power.....:	7W	P
	b) symbol for short-circuit proof type control gear		N/A
<b>7</b>	<b>OUTPUT VOLTAGE AND CURRENT</b>		<b>P</b>
<b>7.1</b>	<b>Starting and connecting requirements</b>		<b>P</b>
	Output within 110% of the rated value within 2 s		P
<b>7.2</b>	<b>Voltage and current during operation</b>		<b>P</b>
	For controlgear with stabilized / non-stabilized output voltage, the output voltage doesn't differ by more than ±10% of the rated voltage	See appended table	N/A
	For controlgear with stabilized / non-stabilized output current, the output current doesn't differ by more than ±10% of the rated current	See appended table	P
<b>7.3</b>	<b>Capacitive load requirement</b>		<b>N/A</b>





IEC 62384			
Clause	Requirement + Test	Result - Remark	Verdict
	LED module or any additional control unit not disturbing the controlgear overcurrent detection		N/A
	LED module or any additional control unit not disturbing the starting process of the controlgear		N/A
<b>8</b>	<b>TOTAL CIRCUIT POWER</b>		<b>P</b>
	Total circuit power $\leq$ 110% of the value declared by the manufacturer	See appended table	P
<b>9</b>	<b>CIRCUIT POWER FACTOR</b>		<b>P</b>
	Circuit power factor $\geq$ (marked value - 0,05)	See appended table	P
	Controlgear designed to provide constant luminous flux, provides the maximum output power		P
<b>10</b>	<b>SUPPLY CURRENT</b>		<b>P</b>
	Supply current doesn't differ by more than 10% from the marked value	See appended table	P
<b>11</b>	<b>OPERATIONAL TESTS FOR ABNORMAL CONDITIONS</b>		<b>P</b>
	Controlgear not damaged		—
	a) without LED module(s) inserted		P
	The LED module(s) operate(s) normally after test a)		P
	b) for reduced LED module resistance		P
	c) for short-circuit proof control gear		P
	The controlgear operates normally after the tests and after restoration of a protecting device		P
<b>12</b>	<b>ENDURANCE</b>		<b>P</b>
12.1	a) Temperature cycling shock test (5 cycles).....:	-10°C to 75°C	P
	b) Supply voltage switching test (200+800 cycles) ....:	Test voltage: 240V~	P
	The controlgear operates an appropriate LED module(s) correctly for 15 min	At the end of these tests, the control gear can be operate an appropriate LED module or LED modules correctly for 15 min.	P
12.2	The controlgear is operated at rated supply voltage and in ambient temperature which produces tc, until a test period of 200 h has passed	tc.75°C , test 200h	P
	The controlgear operates an appropriate LED module(s) correctly for 15 min	Yes, Control gear correctly start and operate for 15 min	P





IEC 62384			
Clause	Requirement + Test	Result - Remark	Verdict

7.2	TABLE: Voltage and current during operation			P
Supply voltage (a.c. or d.c.)	Rated output (voltage or current) $X_{rated}$	Measured output (voltage or current) $X_{meas}$	$(X_{meas} - X_{rated}) / X_{rated}$ (%)	Comments
220V~*0.92	200mA	198mA	-1.00%	Pass
240V~*1.06	200mA	203mA	1.5%	Pass
Supplementary information:				

8	TABLE: Total circuit power			P
Supply voltage (a.c. or d.c.)	Rated power $P_{rated}$ (W)	Measured power $P_{meas}$ (W)	$P_{meas} / P_{rated}$ (%)	Comments
220V~	7	6.5	92.86%	Pass
240V~	7	6.8	97.14%	Pass
Supplementary information:				

9	TABLE: Total Circuit power factor				P
Supply voltage (a.c.)	Output power (W)	Marked power factor $\lambda_{mark}$	Measured power factor $\lambda_{meas}$	$\lambda_{meas} - \lambda_{mark}$	Comments
220V~	7	0.5	0.531	0.031	Pass
240V~	7	0.5	0.508	0.008	Pass
Supplementary information:					

10	TABLE: Supply current			P
Supply voltage (a.c. or d.c.)	Rated current $I_{rated}$ (A)	Measured current $I_{meas}$ (A)	$(I_{meas} - I_{rated}) / I_{rated}$ (%)	Comments
220V~	0.06	0.055	-8.33%	Pass
240V~	0.06	0.059	-5.58%	Pass
Supplementary information:				





Attachment No.1

Photo Documentation

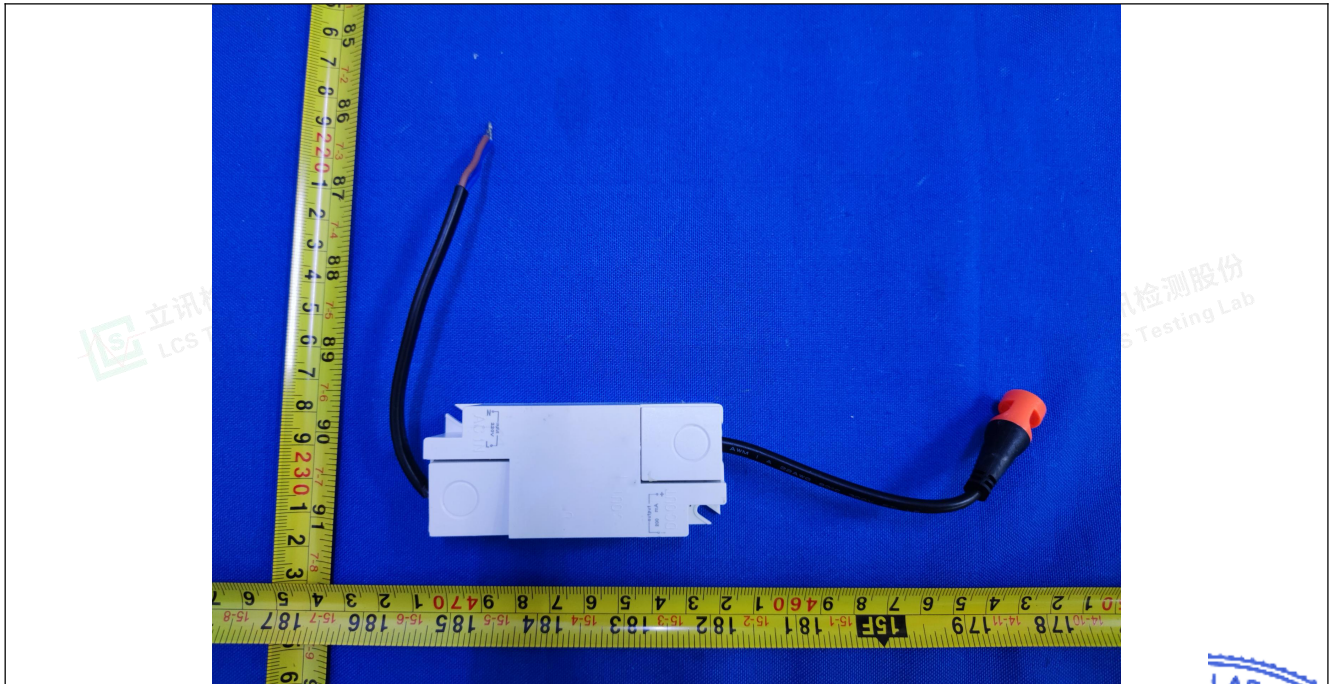


Photo 1

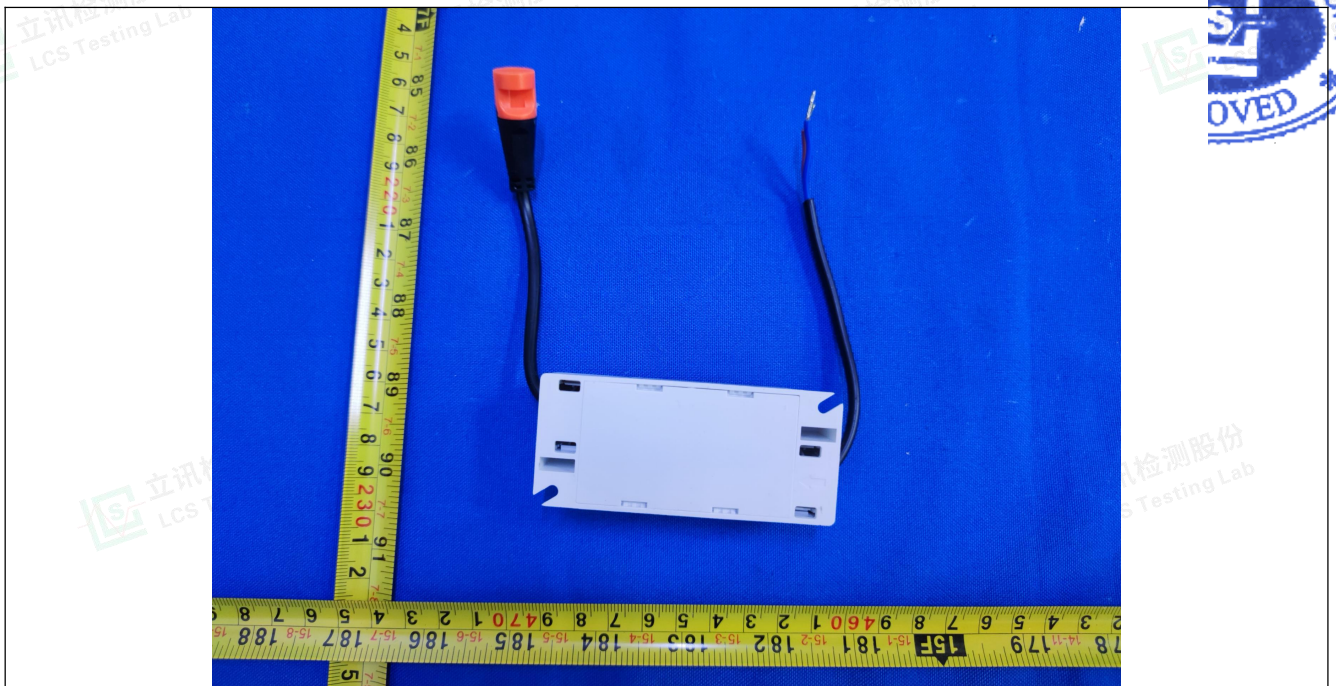


Photo 2

-----End of Test Report-----



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