





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>	
<b>Report Number</b> .....	CN21LPQG 002
<b>Date of issue</b> .....	25.Mar.2022
<b>Total number of pages</b> .....	14
<b>Name of Testing Laboratory preparing the Report</b> .....	TÜV Rheinland (Shenzhen) Co., Ltd.
<b>Applicant's name</b> .....	<b>TPV Electronics (Fujian) Co., Ltd.</b>
<b>Address</b> .....	Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian, P.R.China
<b>Test specification:</b>	
<b>Standard</b> .....	IEC 62368-1:2018
<b>Test procedure</b> .....	CB Scheme
<b>Non-standard test method</b> .....	N/A
<b>TRF template used</b> .....	IECEE OD-2020-F1:2020, Ed.1.3
<b>Test Report Form No.</b> .....	IEC62368_1E
<b>Test Report Form(s) Originator</b> ....	UL(US)
<b>Master TRF</b> .....	Dated 2021-02-04
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<b>This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.</b>	
<b>General disclaimer:</b>	
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<b>Test item description .....</b>	LCD Monitor	
<b>Trade Mark(s) .....</b>	AOC	
<b>Manufacturer .....</b>	Same as applicant	
<b>Model/Type reference.....</b>	Q22P2, 22P2, 22E2, Q22P2*****, U22P2*****, 22P2*****, 22E2***** (* can be 0-9, A-Z, a-z, -, \, /, + or blank, represent different enclosure colour for marketing purpose)	
<b>Ratings.....</b>	I/P: 100-240V~, 50/60Hz, 1.5A	
<b>Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):</b>		
<input checked="" type="checkbox"/>	<b>CB Testing Laboratory:</b>	TÜV Rheinland (Shenzhen) Co., Ltd.
<b>Testing location/ address .....</b>	1601-1604, 17-18F, Tower A Building 2, Shenzhen International Innovation Valley, Dashi 1st Road, Xili Street, Xili Community, Shenzhen 518052 Nanshan District, China	
<b>Tested by (name, function, signature) .....</b>		
<b>Approved by (name, function, signature) ..</b>		
<input checked="" type="checkbox"/>	<b>Testing procedure: CTF Stage 1:</b>	TPV Electronics (Fujian) Co., Ltd.
<b>Testing location/ address .....</b>	Shangzheng, Yuan Hong Road Fuqing City, Fujian, P.R.China	
<b>Tested by (name, function, signature) .....</b>	Solina Zhao Project Engineer	
<b>Approved by (name, function, signature) ..</b>	Anderson Wang Technical Reviewer	
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 2:</b>	
<b>Testing location/ address .....</b>		
<b>Tested by (name, function, signature) .....</b>		
<b>Witnessed by (name, function, signature) ..</b>		
<b>Approved by (name, function, signature) ..</b>		
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 3:</b>	
<input type="checkbox"/>	<b>Testing procedure: CTF Stage 4:</b>	
<b>Testing location/ address .....</b>		
<b>Tested by (name, function, signature) .....</b>		
<b>Witnessed by (name, function, signature) ..</b>		
<b>Approved by (name, function, signature) ..</b>		
<b>Supervised by (name, function, signature) :</b>		

<b>List of Attachments (including a total number of pages in each attachment):</b>							
- Photo documentation (1 Page)							
<b>Summary of testing:</b>							
<b>Tests performed (name of test and test clause):</b>	<b>Testing location:</b>						
<table border="1"> <thead> <tr> <th>name of test</th> <th>test clause number</th> </tr> </thead> <tbody> <tr> <td>Input test</td> <td>Annex B.2.5</td> </tr> <tr> <td>Limited power source test (LPS)</td> <td>Annex Q.1</td> </tr> </tbody> </table>	name of test	test clause number	Input test	Annex B.2.5	Limited power source test (LPS)	Annex Q.1	All tests as described in Test Case and Measurement Sections were performed at the CTF laboratory described on page 2.
name of test	test clause number						
Input test	Annex B.2.5						
Limited power source test (LPS)	Annex Q.1						
The EUT passed the test.							
<b>Summary of compliance with National Differences (List of countries addressed):</b>							
EU Group Differences, EU Special National Conditions, CA, DK, US							
Explanation of used codes: CA=Canada, DK=Denmark, US=United States of America							
<input checked="" type="checkbox"/> <b>The product fulfils the requirements of <u>EN IEC 62368-1:2020+ A11:2020</u> and <u>BS EN IEC 62368-1:2020+ A11:2020</u></b>							
For National Differences see corresponding Attachment of original report CN21LPQG 001.							
<b>Statement concerning the uncertainty of the measurement systems used for the tests</b>							
<input type="checkbox"/> <b>Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:</b>							
<b>Procedure number, issue date and title:</b>							
Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.							
<input checked="" type="checkbox"/> <b>Statement not required by the standard used for type testing</b>							
<b>Copy of marking plate:</b>							
- See original report CN21LPQG 001 for the details.							

Test item particulars:	
<b>Product group</b> .....	<input checked="" type="checkbox"/> end product <input type="checkbox"/> built-in component
<b>Classification of use by</b> .....	<input checked="" type="checkbox"/> Ordinary person <input checked="" type="checkbox"/> Children likely present <input type="checkbox"/> Instructed person <input type="checkbox"/> Skilled person
<b>Supply connection</b> .....	<input checked="" type="checkbox"/> AC mains <input type="checkbox"/> DC mains <input type="checkbox"/> not mains connected: <input type="checkbox"/> ES1 <input type="checkbox"/> ES2 <input type="checkbox"/> ES3
<b>Supply tolerance</b> .....	<input checked="" type="checkbox"/> +10%/-10% <input type="checkbox"/> +20%/-15% <input type="checkbox"/> +      %/ -      % <input type="checkbox"/> None
<b>Supply connection – type</b> .....	<input checked="" type="checkbox"/> pluggable equipment type A - <input type="checkbox"/> non-detachable supply cord <input checked="" type="checkbox"/> appliance coupler <input type="checkbox"/> direct plug-in <input type="checkbox"/> pluggable equipment type B - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> permanent connection <input type="checkbox"/> mating connector <input type="checkbox"/> other:
<b>Considered current rating of protective device</b> .....	<input checked="" type="checkbox"/> 20 A; Location: <input checked="" type="checkbox"/> building <input type="checkbox"/> equipment <input type="checkbox"/> N/A
<b>Equipment mobility</b> .....	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> direct plug-in <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input checked="" type="checkbox"/> wall/ceiling-mounted <input type="checkbox"/> SRME/rack-mounted <input type="checkbox"/> other:
<b>Overvoltage category (OVC)</b> .....	<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:
<b>Class of equipment</b> .....	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III <input type="checkbox"/> Not classified <input type="checkbox"/>
<b>Special installation location</b> .....	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> restricted access area <input type="checkbox"/> outdoor location <input type="checkbox"/>
<b>Pollution degree (PD)</b> .....	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
<b>Manufacturer's specified T<sub>ma</sub></b> .....	40 °C <input type="checkbox"/> Outdoor: minimum                      °C
<b>IP protection class</b> .....	<input checked="" type="checkbox"/> IPX0 <input type="checkbox"/> IP__
<b>Power systems</b> .....	<input checked="" type="checkbox"/> TN <input type="checkbox"/> TT <input type="checkbox"/> IT -                      V <sub>L-L</sub> <input type="checkbox"/> not AC mains
<b>Altitude during operation (m)</b> .....	<input type="checkbox"/> 2000 m or less <input checked="" type="checkbox"/> 5000 m
<b>Altitude of test laboratory (m)</b> .....	<input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> m
<b>Mass of equipment (kg)</b> .....	Total with base: 4.16kg Base: 1.65kg

<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 .....: 23.Feb.2022															
Date (s) of performance of tests .....: 23.Mar.2022															
<b>General remarks:</b>															
"(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.															
<b>Manufacturer's Declaration per sub-clause 4.2.5 of IEC62368-1:</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>	<table border="0"> <tr> <td>1</td> <td>TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian, P.R. China</td> </tr> <tr> <td>2</td> <td>TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road, Fuqing City, Fujian, P.R. China</td> </tr> <tr> <td>3</td> <td>TPV Electronics (Fujian) Co., Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing City, 350301, Fujian, P.R. China</td> </tr> <tr> <td>4</td> <td>L&amp;T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing, 350301, Fujian, P.R. China</td> </tr> <tr> <td>5</td> <td>TPV Display Technology (China) Co., Ltd. No. 106 Jinghai 3 Rd., BDA, 100176, Beijing, P.R. China</td> </tr> <tr> <td>6</td> <td>TPV Display Technology (Wuhan) Co., Ltd. Unique No. 11, Zhuankou Development District of Economic Technological Development Zone, 430056, Wuhan City, P.R. China</td> </tr> <tr> <td>7</td> <td>TPV Display Technology (Beihai) Co., Ltd. China Electronic Beihai Industry Park, Northeast of the Crossing Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P.R. China</td> </tr> </table>	1	TPV Electronics (Fujian) Co., Ltd. Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian, P.R. China	2	TPV Electronics (Fujian) Co., Ltd. Shangzheng, Yuan Hong Road, Fuqing City, Fujian, P.R. China	3	TPV Electronics (Fujian) Co., Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing City, 350301, Fujian, P.R. China	4	L&T Display Technology (Fujian) Ltd. Optoelectronic Park, Rongqiao Economic and Technological Development Zone, Fuqing, 350301, Fujian, P.R. China	5	TPV Display Technology (China) Co., Ltd. No. 106 Jinghai 3 Rd., BDA, 100176, Beijing, P.R. China	6	TPV Display Technology (Wuhan) Co., Ltd. Unique No. 11, Zhuankou Development District of Economic Technological Development Zone, 430056, Wuhan City, P.R. China	7	TPV Display Technology (Beihai) Co., Ltd. China Electronic Beihai Industry Park, Northeast of the Crossing Between Taiwan Road and Jilin Road, Beihai City, Guangxi, P.R. China
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|----|--|
| 8  | Trend Smart CE Mexico S de RL de CV<br>Avenida Sor Juana Ines de la Cruz de 19602<br>Nueva Tijuana, 22435 Tijuana Baja California,<br>MEXICO   |
| 9  | Envision Indústria de Produtos Eletrônicos Ltda.<br>Av. Torquato Tapajós, 2236, Flores - CEP<br>69058-830 - Manaus/AM, Brazil  |
| 10 | TPV Technology (Thailand) Co., Ltd.<br>No.267 Mu7, Tha Tum Sub- District, Si Maha<br>Pho District, Prachin Buri Province, Thailand   |
| 11 | GeneTouch Corp.<br>No. 9 Neixi Rd., Luzhu Dist., Taoyuan City,<br>338012, Taiwan   |
| 12 | Dixon Technologies (India) Ltd.<br>EMC-2, Shed No. 2,4,5,6 & 7, Near<br>Tirupati Airport, Village Govindhavaram,<br>Munagalapalem Post, Revenue Vikruthamala,<br>Yerpedu Mandelam, District-Chittoor, Andhra<br>Pradesh, 517526, India |
| 13 | Fábrica Austral de Productos Eléctricos S.A.<br>Islas Malvinas 1180, Rio Grande (9420),<br>Provincia de Tierra del Fuego, Antártida e Islas<br>del Atlántico Sur, Argentina  |

**General product information and other remarks:****Product Description –**

Description of change(s):

1. Add alternative main board 715GD060, which is used with power board 715G7610 only.
2. Update factory list by client's request.

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

Change	Testing	Comments
1.	- See "Summary of testing" on Page 3 for the details.	Due to the power consumption of new main board is not higher than that of original main board listed in original report CN21LPQG 001. No heating test is required. See following page for the details.
2.	- N/A	See Page 5-6 for the details.

History of amendments and modifications:

Ref. No. CN21LPQG 001, dated 28.May.2021 (Original report)

Ref. No. CN21LPQG 002, dated 25.Mar.2022 (Modification)