



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..... : 60436679 001

Date of issue : 11.Jun.2021

Total number of pages : 76 pages

Name of Testing Laboratory
preparing the Report : TÜV Rheinland (Shenzhen) Co., Ltd.

Applicant's name : TPV Electronics (Fujian) Co., Ltd.

Address : Rongqiao Economic and Technological Development Zone,
Fuqing City, Fujian, P.R.China

Test specification:

Standard : IEC 62368-1:2018

Test procedure..... : CB Scheme

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

TRF template used : IECEE OD-2020-F1:2020, Ed.1.3

Test Report Form No..... : IEC62368_1E

Test Report Form(s) Originator.... : UL(US)

Master TRF : Dated 2021-02-04

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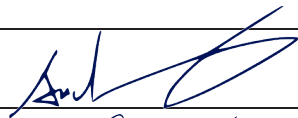
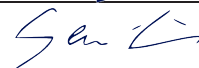
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General disclaimer:

The test results presented in this report relate only to the object tested.

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| | | |
|---|--|---|
| Test item description | LCD MONITOR (LED backlight) | |
| Trade Mark(s) | AOC | |
| Manufacturer | Same as applicant. | |
| Model/Type reference | AG493UCX, AG493*****, 493***** (* can be 0-9, A-Z, a-z, - , \, /, + or blank, represent different enclosure colour for marketing purpose) | |
| Ratings | I/P: 100-240V~, 50/60Hz, 3A. | |
| Responsible Testing Laboratory (as applicable), testing procedure and testing location(s): | | |
| <input checked="" type="checkbox"/> | CB Testing Laboratory: | TÜV Rheinland (Shenzhen) Co., Ltd. |
| Testing location/ address | 1601 R&D Room, 1602-1604, 17-18F, Building 7 Site C, Vanke Cloud City Phase I, Xingke First Street, Xili Street, Xili Community, Nanshan District, Shenzhen 518052, P.R. China | |
| Tested by (name, function, signature) | Anderson Wang Senior Project Manager |  |
| Approved by (name, function, signature) .. | Steven Lin Technical Reviewer |  |
| <input type="checkbox"/> | Testing procedure: CTF Stage 1: | |
| Testing location/ address | | |
| Tested by (name, function, signature) | | |
| Approved by (name, function, signature) .. | | |
| <input type="checkbox"/> | Testing procedure: CTF Stage 2: | |
| Testing location/ address | | |
| Tested by (name, function, signature) | | |
| Witnessed by (name, function, signature) . : | | |
| Approved by (name, function, signature) .. : | | |
| <input type="checkbox"/> | Testing procedure: CTF Stage 3: | |
| <input type="checkbox"/> | Testing procedure: CTF Stage 4: | |
| Testing location/ address | | |
| Tested by (name, function, signature) | | |
| Witnessed by (name, function, signature) . : | | |
| Approved by (name, function, signature) .. : | | |
| Supervised by (name, function, signature) : | | |

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

- Measurement Section (4 Pages)
- National Differences (30 Pages)
- Photo documentation (8 Pages)

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

| name of test | test clause number |
|--|----------------------------|
| Classification of electrical energy sources | 5.2 |
| Accessibility to electrical energy sources and safeguards (Accessibility test) | 5.3.2 |
| Maximum operating temperature test (Heating test) | 5.4.1.4, 9.3, B.1.5, B.2.6 |
| Determination of working voltage | 5.4.1.8 |
| Ball pressure test | 5.4.1.10.3 |
| Minimum Clearances/Creepage distance | 5.4.2, 5.4.3 |
| Humidity test | 5.4.8 |
| Electric strength test | 5.4.9 |
| Safeguards against capacitance discharge test | 5.5.2.2 |
| Resistance of the protective bonding system (Ground continuity test) | 5.6.6 |
| Unearthed accessible parts | 5.7.4 |
| Earthed accessible conductive part test | 5.7.5 |
| Electrical Power Source (PS) measurements for classification | 6.2.2 |
| Top Openings in Fire Enclosure | 6.4.8.3.3 |
| Bottom Openings in Fire Enclosure | 6.4.8.3.4 |
| Stability | 8.6 |
| Wall or ceiling mount loading test | 8.7 |
| Input test | Annex B.2.5 |
| Abnormal operating and fault condition tests | Annex B.3, B.4 |
| Test for permanence of markings | Annex F.3.10 |
| Transformer insulation | Annex G.5.3.2 |
| Transformer overload | Annex G.5.3.3 |
| Safeguards against entry of foreign object | Annex P.2.2 |
| Adhesive test | Annex P.4 |
| Limited power source test (LPS) | Annex Q.1 |
| Limited short circuit test | Annex R |
| Steady force test, 10N, 30N, 250N | Annex T.2, T.3, T.5 |
| Enclosure impact test | Annex T.6 |
| Stress relief test | Annex T.8 |

Testing location:

All tests as described in Test Case and Measurement Sections were performed at the laboratory described on page 2.

Summary of compliance with National Differences (List of countries addressed):

Summary of compliance with National Differences to IEC 62368-1:2020 (Third Edition) and EN IEC 62368-1:2020+ A11: 2020 (for explanation of codes see below):

EU Group Differences, EU Special National Conditions, CA, DK, US

Explanation of used codes: CA=Canada, DK=Denmark, US=United States of America

The product fulfils the requirements of EN IEC 62368-1:2020+ A11:2020

For National Differences see corresponding Attachment.

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the NCB and testing laboratory that conducted the testing.

Statement not required by the standard used for type testing

(Note: When IEC or ISO standard requires a statement concerning the uncertainty of the measurement systems used for tests, this should be reported above. The informative text in parenthesis should be deleted in both cases after selecting the applicable option)

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.



Note: All models rating label are similar except for type designation. Above labels are representing the other models.