

Technical Report No.: 077-2064421-002

Date: 2021-06-13

Client: LG Electronics Inc.
168, Suchul-daero, Gumi-si, Gyeongsangbuk-do, 39368, Republic of Korea

Manufacturing place: LG Electronics Inc. (96602)
168, Suchul-daero, Gumi-si, Gyeongsangbuk-do, 39368, Republic of Korea

LG Electronics Inc. (33786)
77, Sanho-daero, Gumi-si, Gyeongsangbuk-do, 39381, Republic of Korea

LG Electronics Inc.
201 James Record Rd SW, Huntsville, AL 35824

Hengdian Group DMEGC Magnetics Co., Ltd.
PV Zone, Xihuan Road, Hengdian 322100 DONGYANG Zhejiang CHINA

JETION Solar (Tong Cheng) Co., Ltd.
No. 3 North Rd. Tongcheng Economic Dev. Zone 231400 ANQING Anhui CHINA

DehuiSolar Power (Vietnam) Co., Ltd..
Lot H2-1-5 and Lot H2-1-6, Dai Dong-Hoan Son Industrial Park 16109 BAC NINH PROVINCE VIETNAM

Test object: Product: Mono-Crystalline Silicon Photovoltaic Modules
LGxxxN2W-E6.AW5, xxx = 430 to 470 in step of 5
LGxxxN2W-E6, xxx = 430 to 470 in step of 5
LGxxxN1C-A6, xxx = 355 to 385 in step of 5
LGxxxN1W-A6, xxx = 355 to 385 in step of 5
LGxxxN1K-A6, xxx = 345 to 370 in step of 5
Type: LGxxxN1C-E6, xxx = 355 to 390 in step of 5
LGxxxN1W-E6, xxx = 355 to 390 in step of 5
LGxxxN2T-E6, xxx = 420 to 450 in step of 5
LGxxxN1T-E6, xxx = 345 to 375 in step of 5
LGxxxN1K-N6, xxx = 350 to 380 in step of 5
LGxxxN1K-E6, xxx = 350 to 380 in step of 5
LGxxxQ1C-A6, xxx = 390 to 405 in step of 5

LGxxxQ1K-A6, xxx = 375 to 390 in step of 5
LGxxxQAC-A6, xxx = 430 to 445 in step of 5
LGxxxQAK-A6, xxx = 415 to 430 in step of 5
LGxxxN3C-V6, xxx = 395 to 415 in step of 5
LGxxxN3W-V6, xxx = 395 to 415 in step of 5
LGxxxN3K-V6, xxx = 390 to 410 in step of 5
Remark: xxx is standing for rated output power at STC

Test specification: EN 13501-1:2007+A1:2009
EN ISO 11925-2:2010/AC:2011

Purpose of examination: • Testing and evaluation (visual / partial) according to the test specification

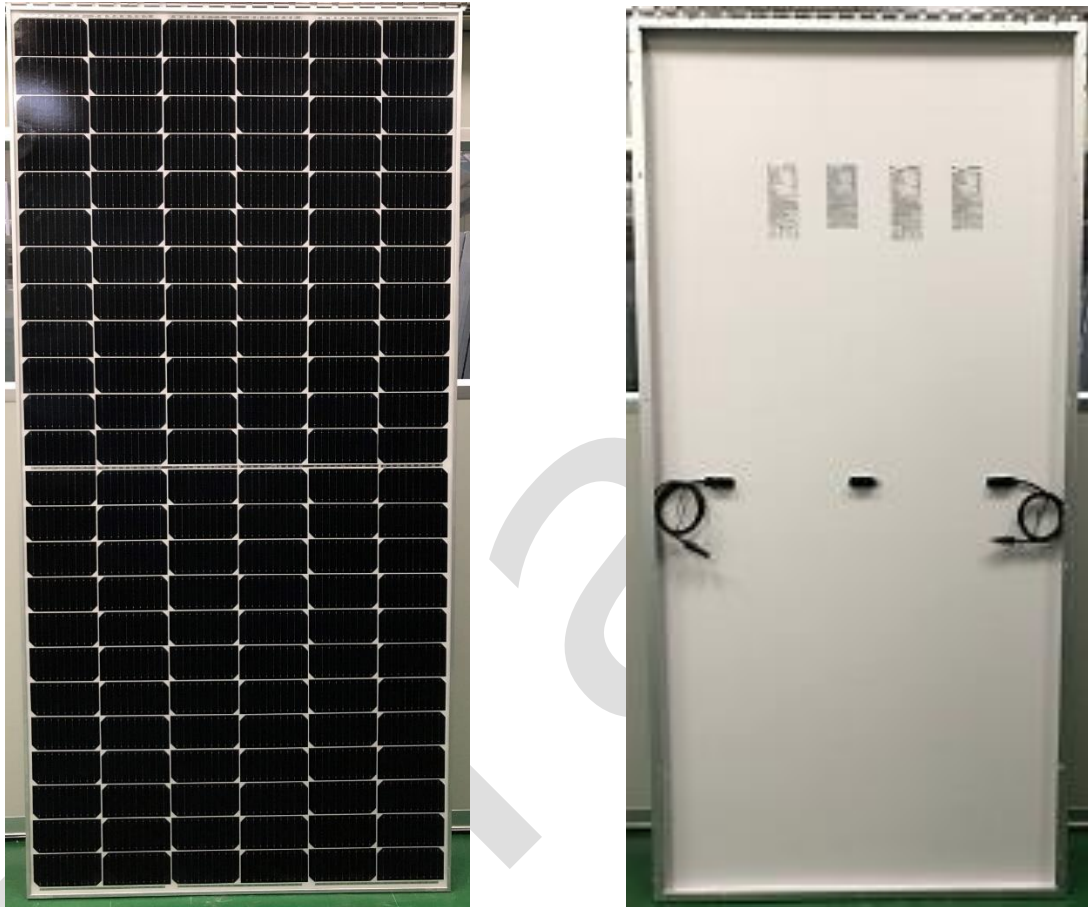
Test result: The test results show that the presented product is in compliance with the specific requirements.

This report is the result of a visual examination.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question. It does not imply a general statement regarding the quality of products from regular production. For further details please see testing and certification regulation, chapter A-3.4.

1. Description of the test object

1.1 Picture(s)



1.2 Function

Manufacturer's specification for intended use:

The PV modules for electricity generation systems with max. voltage of 1500 V DC / 1000 V DC.

Manufacturer's specification for predictive use:

Mentioned in manual

1.3 Consideration of the foreseeable use

- ☒ Not applicable
☐ Covered through the applied standard
☐ Covered by the following comment*
☐ Covered by attached risk analysis

*

1.4 Technical Data



LG
LG455N2W - E6.AW5

Serial No. 製造番号 008S2UY2C038
 Manufactured Date 製造年月日 200831
 Max. Test Load 最大耐荷重 5400 Pa

Pmax 公称最大出力 (-0/+3%) 455 W
 Vmp 公称最大出力動作電圧 42.10 V
 Imp 公称最大出力動作電流 10.83 A
 Voc 公称開放電圧 (-5/+5%) 49.90 V
 Isc 公称短絡電流 (-5/+5%) 11.39 A
 Max. Sys. Voltage (UL) 1500 V
 Max. Sys. Voltage (IEC/CSA) 最大システム電圧 1500 V
 Max. Series Fuse 最大過電流保護定格 20 A

Fire Type Type 1
 Dimension 2110X1042X40 mm
 Weight 公称質量 22 kg

Pmax (Bif) 0.84
 Pmax Bifaciality coefficient 0.88
 Voc Bifaciality coefficient 0.05
 Isc Bifaciality coefficient 0.05

モジュールの適用等級 クラス A

*See Installation Instructions for Installation Requirements to Achieve a Specified System Fire Class Rating with this Product.
 *Standard Test Condition: 1,000W/m², AM 1.5 Spectrum, Cell temperature 25°C
 *See module installation manual for appropriate mating connectors.
 *Tested to IEC 61215-2: 2016 and IEC 61730-1: 2016, IUL/CSA61730
 上記の値は、基準状態における値を示す。
 基準状態：放射照度 1,000W/m²、分光分布 AM1.5、モジュール温度 25°C

WARNING/AVERTISSEMENT/警告
Risk of electric shock/Précaution de choc électrique
 DO NOT connect or disconnect plug contacts while a system is under load current. DO NOT approach the damaged or broken module, unless you are an expert. Otherwise, it may result in a hazardous situation or a serious injury.
Ne connectez ou déconnectez pas le connecteur pendant qu'un système est sous la charge électrique. Ne approchez pas un module endommagé ou détérioré, si vous n'êtes pas un expert. Sinon, il peut en résulter une situation dangereuse ou une blessure sérieuse.

Risk of fires and burns/Précaution de feu et incendie
 DO NOT contact with electrically active parts.
 Ne touchez pas des parts actives électriquement
 感電の恐れがあり、怪けや火傷の原因になります。

感電や火災の恐れがあり、太陽電池モジュールの裏面を触らないこと。

Refer to installation and operation manual before installing, operation or servicing this unit.
 Avant d'installer ou mettre en service cette unité, se référer au manuel d'installation et d'opération.

CE **UL** **CSA** **IEC** **ISO** **TS** **16949**

Solar Cell: Made in Korea
 Solar Module: Made in China
 Designed in Korea

2. Order

2.1 Date of Purchase Order, Customer's Reference

2021-06-22

Report No.: 077-2064421-003
 Rev.: 3
 Date: 2021-06-22

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TÜV SÜD Korea Ltd.
 29F, Two IFC, 10 Gukjegeumyung-ro,
 Yeongdeungpo-gu, Seoul, 07326,
 Korea

2.2 Test Sample(s)

- Reception date(s): N/A
- Location(s) of reception: N/A
- Condition of test sample(s): N/A

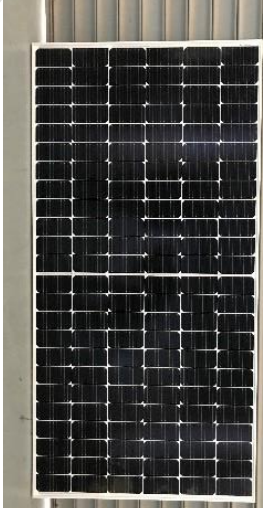
2.3 Date(s) of Testing N/A

2.4 Location(s) of Testing N/A

2.5 Points of Non-Compliance or Exceptions of the Test Procedure

- None

3. Test Results

Sample	Description	Photo	
		Front	Back
001	Sample Description: PV module Model no.: LG455N2W-E6.AW5 Manufacturer: LG Electronics Inc.		

Test Items			Result
No.	Items	Standard	
1	Ignitability of building products subjected to direct impingement of flame- part2: single-flame source	EN 13501-1:2007+A1:2009 EN ISO 11925-2:2010/AC: 2011	Class E

EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements
—Part 1: Classification using data from reaction to fire tests.