

# CERTIFICATE

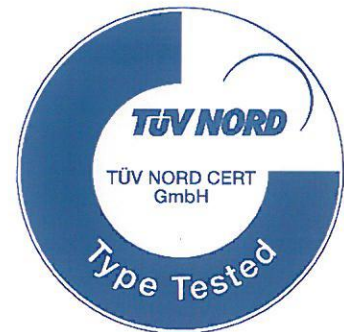
**TÜV NORD CERT GmbH**  
herewith declares that

**VILLARREAL DIVISIÓN EQUIPOS S.A. DE C.V.**  
Morelos 905 Sur  
Col. Centro Allende N.L.,  
México C.P. 67350

is authorized to provide the product mentioned below with the mark as illustrated:

**Description of product (details see Annex 2):**

**PV Modules with Half-cut Mono-crystalline Silicon Solar Cells**



Valid from: 2021-05-10

Valid until: 2026-04-13

Tested according to: IEC / EN 61215-1:2016;  
IEC / EN 61215-1-1:2016;  
IEC 61215-2:2016 / EN 61215-2:2017 + AC:2017 + AC:2018;  
IEC 61730-1:2016 / EN IEC 61730-1:2018 + AC:2018;  
IEC 61730-2:2016 / EN IEC 61730-2:2018 + AC:2018.

Registered No.: 44 780 21 406749 - 075  
Manufacturer: see Annex 1  
Test Report No.: 492011669.001  
File No.: PVP04024/21P



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products



Essen, 2021-05-10

Please also pay attention to the information stated overleaf.

**Description of product(s):**

Module types:

**PV Modules with Half-cut Mono-crystalline Silicon Solar Cells**

144 cells: ASTRALXxxx-MH144 (xxx=525-545, in increment of 5)

144 cells: ASTRALXxxx-MH144 (xxx=430-460, in increment of 5)

132 cells: ASTRALXxxx-MH132 (xxx=480-500, in increment of 5)

132 cells: ASTRALXxxx-MH132 (xxx=395-420, in increment of 5)

120 cells: ASTRALXxxx-MH120 (xxx=440-455, in increment of 5)

120 cells: ASTRALXxxx-MH120 (xxx=360-380, in increment of 5)

108 cells: ASTRALXxxx-MH108 (xxx=395-405, in increment of 5)

Maximum system voltage:

1500V

Fuse rating:

20A

Electrical protection class:

Class II

Pollution degree:

1

Material group:

I

Design load (positive / negative):

1600Pa / 1600Pa or 3600Pa / 1600Pa, refer CDF for details

Safety factors:

1.5

Fire safety class:

Class C according to ANSI/UL 1703-2018 (as per ANSI/UL 790-2018)

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.



**TÜV NORD CERT GmbH**  
Certification Body  
Consumer Products

**Certificate  
of conformity with the following  
European Directives**

Registered No.:  
**44 799 21 406749 - 047**

**Low-Voltage Directive 2014/35/EU**

Date of application	File reference	Test report No.	Date of issue	Place of issue
2020-11-01	PVP04024/21P	492011669.001	2021-05-10	Essen

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

**Product:** Crystalline Silicon Terrestrial Photovoltaic (PV) Modules

**Type designation:** See Annex 1

**Applicant:** **VILLARREAL DIVISIÓN EQUIPOS S.A. DE C.V.**  
Morelos 905 Sur, Col. Centro Allende N.L.,  
México C.P. 67350

**Standard(s):** EN IEC 61730-1:2018; EN IEC 61730-1:2018/AC:2018-06  
EN IEC 61730-2:2018; EN IEC 61730-2:2018/AC:2018-06

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.



Certification Body  
Specialist Manager Consumer Products

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Email: prodcert@tuev-nord.de

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