



Product Service

CERTIFICATE

No. Z2 095465 0007 Rev. 00

Holder of Certificate: **Villarreal División Equipos S.A. de C.V.**
Morelos # 905 Sur, Col. Centro
C.P. 67350 Allende N.L.
MEXICO

Certification Mark:



Product: **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**
Mono-Crystalline Silicon Photovoltaic Module

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 701262208701-00

Valid until: 2027-03-30

Date, 2022-06-09

(Zhulin Zhang)

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Model(s):

1500 V DC Maximum System voltage Modules:

ASTRALXxxx-MH144-BW,ASTRALXxxx-MH144, ASTRALXxxx-BMH144,
ASTRALXxxx-MH144-BB (xxx=530-550, in step of 5);
ASTRALXxxx-MH132-BW,ASTRALXxxx-MH132, ASTRALXxxx-BMH132,
ASTRALXxxx-MH132-BB (xxx=485-500, in step of 5);
ASTRALXxxx-MH132 (xxx=645-670, in step of 5);
ASTRALXxxx-MH120-BW, ASTRALXxxx-MH120, ASTRALXxxx-BMH120,
ASTRALXxxx-MH120-BB (xxx=440-455, in step of 5);
ASTRALXxxx-MH120 (xxx=595-610, in step of 5);
ASTRALXxxx-MH108-BW, ASTRALXxxx-MH108, ASTRALXxxx-BMH108,
ASTRALXxxx-MH108-BB (xxx=400-410, in step of 5);

1000 V DC Maximum System voltage Modules:

ASTRALXxxx-M144-BW,ASTRALXxxx-M144,
ASTRALXxxx-M144-BB (xxx=530-550, in step of 5);
ASTRALXxxx-M132-BW,ASTRALXxxx-M132,
ASTRALXxxx-M132-BB (xxx=485-500, in step of 5);
ASTRALXxxx-M120-BW, ASTRALXxxx-M120,
ASTRALXxxx-M120-BB (xxx=440-455, in step of 5);
ASTRALXxxx-M108-BW, ASTRALXxxx-M108,
ASTRALXxxx-M108-BB (xxx=400-410, in step of 5).
xxx is standing for rated output power at STC.

Parameters:

| | |
|----------------------|---|
| Safety Class: | Class II |
| Max. System Voltage: | 1500V DC or 1000V DC |
| Test Laboratory: | Changzhou HuaYang Inspection and Testing Technology No. 8 Lanxiang Road, Wujin Economic Development Zone Changzhou, Jiangsu, China. |
| Construction: | Framed, with Junction box, cable and connector. |
| Fire Safety Class: | Class C according to UL790 |

Tested according to:

IEC 61215-1:2016
IEC 61215-1-1:2016
IEC 61215-2:2016
IEC 61730-1:2016
IEC 61730-2:2016