



Product Service

CERTIFICATE

No. Z2 082355 0015 Rev. 00

Holder of Certificate: **Hanover Solar GmbH**

Herrenstrasse 13
30159 Hannover
GERMANY

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.: 701262100701-00

Valid until: 2026-03-24

Date, 2021-03-30

(Zhulin Zhang)

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Model(s):

HSxxxM-72-158(xxx=340-405, in step of 5W)
HSxxxM-60-158(xxx=285-335, in step of 5W)
HSxxxM-50-158(xxx=235-280, in step of 5W)
HSxxxM-48-158(xxx=225-270, in step of 5W)
HSxxxM-72-158M(xxx=355-410, in step of 5W)
HSxxxM-60-158M(xxx=300-340, in step of 5W)
HSxxxM-50-158M(xxx=250-280, in step of 5W)
HSxxxM-48-158M(xxx=240-270, in step of 5W)
HSxxxM-72-158MC(xxx=350-415, in step of 5W)
HSxxxM-60-158MC(xxx=295-345, in step of 5W)
HSxxxM-72-158C(xxx=350-410, in step of 5W)
HSxxxM-60-158C(xxx=290-340, in step of 5W)
HSxxxM-72-166(xxx=410-460, in step of 5W)
HSxxxM-60-166(xxx=345-380, in step of 5W)
HSxxxM-48-166(xxx=275-305, in step of 5W)
HSxxxM-32-166(xxx=185-200, in step of 5W)
HSxxxM-30-166(xxx=175-190, in step of 5W)
HSxxxM-78-18X(xxx=560-610, in step of 5W)
HSxxxM-72-18X(xxx=520-560, in step of 5W)
HSxxxM-66-18X(xxx=475-515, in step of 5W)
HSxxxM-60-18X(xxx=435-465, in step of 5W)
HSxxxM-54-18X(xxx=390-420, in step of 5W)
HSxxxM-36-18X(xxx=260-280, in step of 5W)
HSxxxM-32-18X(xxx=230-250, in step of 5W)
HSxxxM-30-18X(xxx=220-235, in step of 5W)
HSxxxM-20-18X(xxx=145-155, in step of 5W)
HSxxxM-16-18X(xxx=115-125, in step of 5W)
xxx is standing for rated output power at STC

Parameters:

Safety Class:	Class II
Max. System Voltage:	1500V DC
Test Laboratory:	Yangzhou Opto-Electrical Products Testing Institute No. 10 West Kaifa Road, Yangzhou 225009 Jiangsu, P. R. China
Construction:	Framed, with Junction box, cable and connector.
Fire Safety Class:	Class C according to UL790

Tested according to:

IEC 61215-1:2016
EN 61215-1:2016
IEC 61215-1-1:2016
EN 61215-1-1:2016
IEC 61215-2:2016
EN 61215-2:2017
IEC 61730-1:2016
EN IEC 61730-1:2018
EN IEC 61730-1:2018/AC:2018-06
IEC 61730-2:2016
EN IEC 61730-2:2018
EN IEC 61730-2:2018/AC:2018-06