ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

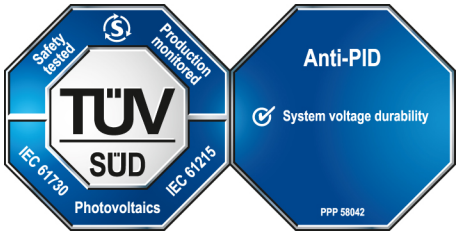
Product Service

C E R T I F I C A T E

No. Z2 119897 0005 Rev. 01

Holder of Certificate: **Hanersun Energy Co., Ltd.**
10F, B4 Block, No.19 Suyuan Avenue
Jiangning District
211100 Nanjing
PEOPLE'S REPUBLIC OF CHINA

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, Certification, Validation and Verification Regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 704062424505-01

Valid until: 2029-06-27

Date, 2024-12-09

(Zhulin Zhang)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

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Model(s):

HN21N-66HTxxxW, xxx=670-715 in steps of 5
HN21N-60HTxxxW, xxx=610-650 in steps of 5
HN21RN-66HTxxxW, xxx=600-630 in steps of 5
HN21RN-48HTxxxW, xxx=430-455 in steps of 5
HN19RN-72HTxxxW, xxx=600-630 in steps of 5
HN19RN-60HTxxxW, xxx=500-525 in steps of 5
HN18N-78HTxxxW, xxx=615-650 in steps of 5
HN18N-72HTxxxW, xxx=570-600 in steps of 5
HN18N-66HTxxxW, xxx=520-550 in steps of 5
HN18N-60HTxxxW, xxx=475-500 in steps of 5
HN18N-54HTxxxW, xxx=425-450 in steps of 5
HN18N-32HTxxxW, xxx=250-265 in steps of 5
HN18N-16HTxxxW, xxx=125-130 in steps of 5
HN18RN-72HTxxxW, xxx=580-615 in steps of 5
HN18RN-54HTxxxW, xxx=430-460 in steps of 5
xxx is standing for rated output power at STC

Parameters:

Construction:	Framed, with Junction box, Cable and Connectors.
Safety Class:	Class II
Maximum System Voltage:	1500 V DC
Fire Safety Class:	Class C according to UL790

PID test condition: -/+1500 V DC, 85 °C, 85 % RH,192 Hours
PID testing method is according to IEC TS 62804-1:2015

Tested according to:

PPP 58042B:2015
IEC 61215-1:2021
IEC 61215-1-1:2021
IEC 61215-2:2021
IEC 61730-1:2023
IEC 61730-2:2023

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