



Product Service

# CERTIFICATE

No. Z2 110450 0001 Rev. 09

**Holder of Certificate:** **Anhui Huasun Energy Co., Ltd.**

No. 99, Qingliu Road  
Xuancheng Economic and Technological Development Zone  
Xuanzhou District  
242000 Xuancheng City, Anhui Province  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Product:**

**Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**  
**Mono-crystalline Silicon Hetero-junction Photovoltaic (PV) Modules**

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](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704062035002-09

**Valid until:** 2027-12-28

**Date,** 2023-06-12

( Zhulin Zhang )

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## Model(s):

### Framed:

166 cell modules:

HS-B144DSxxx (xxx=440 to 500 in step of 5)  
HS-B132DSxxx (xxx=405 to 455 in step of 5)  
HS-B120DSxxx (xxx=365 to 415 in step of 5)  
HS-B144DSNxxx (xxx=440 to 480 in step of 5)  
HS-B132DSNxxx (xxx=405 to 440 in step of 5)  
HS-B120DSNxxx (xxx=365 to 400 in step of 5)  
HS-B156DSBxxx (xxx=490 to 520 in step of 5)  
HS-B144DSBxxx (xxx=450 to 480 in step of 5)  
HS-B132DSBxxx (xxx=410 to 440 in step of 5)  
HS-B120DSBxxx (xxx=375 to 400 in step of 5)  
HS-B156DSNxxx (xxx=490 to 520 in step of 5)  
HS-B156DSxxx (xxx=490 to 520 in step of 5)  
HS-S120DSBxxx (xxx=370 to 400 in step of 5)  
HS-B96DSxxx (xxx=295 to 320 in step of 5)  
HS-B96DSNxxx (xxx=295 to 320 in step of 5)  
HS-S144DSxxx (xxx=450 to 480 in step of 5)  
HS-S132DSxxx (xxx=410 to 440 in step of 5)  
HS-S120DSxxx (xxx=375 to 400 in step of 5)

210 cell modules:

HS-210-B132DSxxx (xxx=640 to 720 in step of 5)  
HS-210-B120DSxxx (xxx=590 to 650 in step of 5)  
HS-210-B110DSxxx (xxx=540 to 590 in step of 5)

182 cell modules:

144 cells: HS-182-B144DSxxx (xxx=550 to 600 in step of 5)  
108 cells: HS-182-B108DSxxx (xxx=410 to 450 in step of 5)  
HS-182-S108DSBxxx (xxx=425 to 445 in step of 5)  
HS-182-B108DSNxxx (xxx=420 to 440 in step of 5)  
HS-182-B108DSBxxx (xxx=420 to 440 in step of 5)

### Frameless:

HS-B144DNxxx (xxx=440 to 500 in step of 5)  
HS-B132DNxxx (xxx=405 to 455 in step of 5)  
HS-B120DNxxx (xxx=365 to 415 in step of 5)  
HS-B144DNNxxx (xxx=440 to 480 in step of 5)  
HS-B132DNNxxx (xxx=405 to 440 in step of 5)  
HS-B120DNNxxx (xxx=365 to 400 in step of 5)  
HS-B96DNNxxx (xxx=295 to 320 in step of 5)  
xxx stands for rated output power at STC

The corresponding BSTS power range as follows:

All electrical data is shown as relative to this test conditions:

front side irradiance 1000 W/m<sup>2</sup>, backside irradiance

135 W/m<sup>2</sup>, 25 °C, AM 1.5

### Framed:

166 cell modules:

HS-B144DSxxx (BSTC Power range: 490W to 550W in step of 5)  
HS-B132DSxxx (BSTC Power range: 450W to 500W in step of 5)  
HS-B120DSxxx (BSTC Power range: 405W to 455W in step of 5)  
HS-B144DSNxxx (BSTC Power range: 495W to 535W in step of 5)  
HS-B132DSNxxx (BSTC Power range: 455W to 490W in step of 5)  
HS-B120DSNxxx (BSTC Power range: 410W to 445W in step of 5)  
HS-B156DSBxxx (BSTC Power range: 540W to 570W in step of 5)  
HS-B144DSBxxx (BSTC Power range: 495W to 525W in step of 5)  
HS-B132DSBxxx (BSTC Power range: 450W to 480W in step of 5)  
HS-B120DSBxxx (BSTC Power range: 410W to 435W in step of 5)  
HS-B156DSNxxx (BSTC Power range: 545W to 575W in step of 5)  
HS-B156DSxxx (BSTC Power range: 540W to 570W in step of 5)  
HS-B96DSxxx (BSTC Power range: 325W to 350W in step of 5)  
HS-B96DSNxxx (BSTC Power range: 325W to 350W in step of 5)

210 cell modules:

HS-210-B132DSxxx (BSTC Power range: 710W to 790W in step of 5)  
HS-210-B120DSxxx (BSTC Power range: 655W to 715W in step of 5)  
HS-210-B110DSxxx (BSTC Power range: 600W to 650W in step of 5)

182 cell modules:



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144 cells: HS-182-B144DSxxx (xxx=610w to 660w in step of 5)  
108 cells: HS-182-B108DSxxx (xxx=455w to 495w in step of 5)  
HS-182-B108DSNxxx (BSTC Power range: 470w to 490w in step of 5)  
HS-182-B108DSBxxx (BSTC Power range: 465w to 485w in step of 5)

Frameless:  
HS-B144DNxxx (BSTC Power range: 490W to 550W in step of 5)  
HS-B132DNxxx (BSTC Power range: 450W to 500W in step of 5)  
HS-B120DNxxx (BSTC Power range: 405W to 455W in step of 5)  
HS-B144DNNxxx (BSTC Power range: 495W to 535W in step of 5)  
HS-B132DNNxxx (BSTC Power range: 455W to 490W in step of 5)  
HS-B120DNNxxx (BSTC Power range: 410W to 445W in step of 5)  
HS-B96DNNxxx (BSTC Power range: 325W to 350W in step of 5)

## Parameters:

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

## Tested according to:

IEC 61215-1:2016  
IEC 61215-1-1:2016  
IEC 61215-2:2016  
IEC 61730-1:2016  
IEC 61730-2:2016  
EN 61215-1:2016  
EN 61215-1-1:2016  
EN 61215-2:2017  
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