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

Product Service

C E R T I F I C A T E

No. Z2 107931 0032 Rev. 00

Holder of Certificate: **YUHUAN SUNPRO POWER CO.,LTD**
Qinggang Technological Ind. Zone,
317606 Yuhuan, Zhejiang 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

Test report no.: 701262214301-00

Valid until: 2027-05-12

Date, 2022-07-29

(Zhulin Zhang)

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

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Model(s):

Framed:
166 cell modules:
SP-144DSxxx (xxx=440 to 500 in step of 5)
SP-132DSxxx (xxx=405 to 455 in step of 5)
SP-120DSxxx (xxx=365 to 415 in step of 5)
SP-144DSNxxx (xxx=440 to 480 in step of 5)
SP-132DSNxxx (xxx=405 to 440 in step of 5)
SP-120DSNxxx (xxx=365 to 400 in step of 5)
SP-156DSBxxx (xxx=490 to 520 in step of 5)
SP-144DSBxxx (xxx=450 to 480 in step of 5)
SP-132DSBxxx (xxx=410 to 440 in step of 5)
SP-120DSBxxx (xxx=375 to 400 in step of 5)
SP-156DSNxxx (xxx=490 to 520 in step of 5)
SP-156DSxxx (xxx=490 to 520 in step of 5)

210 cell modules:
SP-210-132DSxxx (xxx=670 to 700 in step of 5)
SP-210-120DSxxx (xxx=605 to 635 in step of 5)
SP-210-110DSxxx (xxx=555 to 580 in step of 5)

Frameless:
SP-144DNxxx (xxx=440 to 500 in step of 5)
SP-132DNxxx (xxx=405 to 455 in step of 5)
SP-120DNxxx (xxx=365 to 415 in step of 5)
SP-144DNNxxx (xxx=440 to 480 in step of 5)
SP-132DNNxxx (xxx=405 to 440 in step of 5)
SP-120DNNxxx (xxx=365 to 400 in step of 5)
SP-96DNNxxx (xxx=295 to 320 in step of 5)
xxx stands for rated output power at STC

The corresponding BSTC power range as follows:
All electrical data is shown as relative to this test conditions:
front side irradiance 1000 W/m2, backside irradiance 135 W/m2, 25 °C, AM 1.5
Framed:
166 cell modules:
SP-144DSxxx (BSTC Power range: 490W to 550W in step of 5)
SP-132DSxxx (BSTC Power range: 450W to 500W in step of 5)
SP-120DSxxx (BSTC Power range: 405W to 455W in step of 5)
SP-144DSNxxx (BSTC Power range: 495W to 535W in step of 5)
SP-132DSNxxx (BSTC Power range: 455W to 490W in step of 5)
SP-120DSNxxx (BSTC Power range: 410W to 445W in step of 5)
SP-156DSBxxx (BSTC Power range: 540W to 570W in step of 5)
SP-144DSBxxx (BSTC Power range: 495W to 525W in step of 5)
SP-132DSBxxx (BSTC Power range: 450W to 480W in step of 5)
SP-120DSBxxx (BSTC Power range: 410W to 435W in step of 5)
SP-156DSNxxx (BSTC Power range: 545W to 575W in step of 5)
SP-156DSxxx (BSTC Power range: 540W to 570W in step of 5)

210 cell modules:
SP-210-132DSxxx (BSTC Power range: 740W to 770W in step of 5)
SP-210-120DSxxx (BSTC Power range: 670W to 700W in step of 5)
SP-210-110DSxxx (BSTC Power range: 615W to 640W in step of 5)

Frameless:
SP-144DNxxx (BSTC Power range: 490W to 550W in step of 5)
SP-132DNxxx (BSTC Power range: 450W to 500W in step of 5)
SP-120DNxxx (BSTC Power range: 405W to 455W in step of 5)
SP-144DNNxxx (BSTC Power range: 495W to 535W in step of 5)
SP-132DNNxxx (BSTC Power range: 455W to 490W in step of 5)
SP-120DNNxxx (BSTC Power range: 410W to 445W in step of 5)
SP-96DNNxxx (BSTC Power range: 325W to 350W in step of 5)

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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 A according to UL790
Test Laboratory:	Yangzhou Opto-Electrical Products Testing Institute. 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

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