



Product Service

CERTIFICATE

No. Z2 099010 0010 Rev. 00

Holder of Certificate: Sunerg Solar Srl
Via Donini 51 Loc. Cinquemiglia
06012 Citta di Castello (PG)
ITALY

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

Test report no.: 701262328201-01

Valid until: 2029-05-12

Date, 2024-06-17

(Zhulin Zhang)

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Model(s):

Framed:

144 cells: XMHCJlxxxBFDG+H (xxx = 440 to 500 in step of 5);
 132 cells: XMHCJGxxxBFDG+H (xxx = 405 to 455 in step of 5);
 120 cells: XMHCJxxxBFDG+H (xxx = 365 to 415 in step of 5);
 144 cells: XMHCJlxxxBFDGB+H (xxx = 440 to 480 in step of 5);
 132 cells: XMHCJGxxxBFDGB+H (xxx = 405 to 440 in step of 5);
 120 cells: XMHCJxxxBFDGB+H (xxx = 365 to 400 in step of 5);
 156 cells: XMHCJRxxxBFDGBB+H (xxx = 490 to 520 in step of 5);
 144 cells: XMHCJlxxxBFDGBB+H (xxx = 450 to 480 in step of 5);
 132 cells: XMHCJGxxxBFDGBB+H (xxx = 410 to 440 in step of 5);
 120 cells: XMHCJxxxBFDGBB+H (xxx = 375 to 400 in step of 5);
 156 cells: XMHCJRxxxBFDGB+H (xxx = 490 to 520 in step of 5);
 156 cells: XMHCJRxxxBFDG+H (xxx = 490 to 520 in step of 5);
 120 cells: XMHCJxxxDGBB+H (xxx = 370 to 400 in step of 5);
 144 cells: XMHCJlxxxDG+H (xxx = 450 to 480 in step of 5);
 132 cells: XMHCJGxxxDG+H (xxx = 410 to 440 in step of 5);
 120 cells: XMHCJxxxDG+H (xxx = 375 to 400 in step of 5);

210 x 105mm cell modules:

132 cells: XMHCJExxxBFDG+H (xxx = 640 to 725 in step of 5);
 120 cells: XMHCJDxxxBFDG+H (xxx = 590 to 650 in step of 5);
 110 cells: XMHCJCxxxBFDG+H (xxx = 540 to 590 in step of 5);
 132 cells: XMHCJE5xxxBFDG+H (xxx = 640 to 720 in step of 5);

182 x 91.75mm cell modules:

144 cells: XMHCJQxxxBFDG+H (xxx = 550 to 600 in step of 5);
 108 cells: XMHCJOxxxBFDG+H (xxx = 410 to 450 in step of 5);
 108 cells: XMHCJOxxxDGBB+H (xxx=425 to 445 in step of 5);
 108 cells: XMHCJOxxxBFDGB+H (xxx=420 to 440 in step of 5);
 108 cells: XMHCJOxxxBFDGBB+H (xxx=420 to 440 in step of 5);

182 x 105mm cell modules:

132 cells: XMHCJE3xxxBFDG+H (xxx=590 to 630 in step of 5);
 108 cells: XMHCJU3xxxBFDG+H (xxx=480 to 515 in step of 5);
 96 cells: XMHCJV3xxxBFDG+H (xxx=430 to 460 in step of 5);
 108 cells: XMHCJU3xxxBFDGBB+H (xxx=470 to 500 in step of 5);
 108 cells: XMHCJU3xxxBFDGB+H (xxx=470 to 510 in step of 5);
 108 cells: XMHCJU3xxxBB+H (xxx=480 to 505 in step of 5);
 96 cells: XMHCJV3xxxBFDGBB+H (xxx=420 to 445 in step of 5);
 96 cells: XMHCJV3xxxBFDGB+H (xxx=420 to 450 in step of 5);
 96 cells: XMHCJV3xxxBB+H (xxx=425 to 450 in step of 5);

Frameless:

166 x 83mm cell modules:

144 cells: XMHCJlxxxBFDG+HSC (xxx = 440 to 500 in step of 5);
 132 cells: XMHCJGxxxBFDG+HSC (xxx = 405 to 455 in step of 5);
 120 cells: XMHCJxxxBFDG+HSC (xxx = 365 to 415 in step of 5);
 144 cells: XMHCJlxxxBFDGB+HSC (xxx = 440 to 480 in step of 5);
 132 cells: XMHCJGxxxBFDGB+HSC (xxx = 405 to 440 in step of 5);
 120 cells: XMHCJxxxBFDGB+HSC (xxx = 365 to 400 in step of 5);
 96 cells: XMHCJVxxxBFDGB+HSC (xxx = 295 to 320 in step of 5);
 xxx stands for rated output power at STC

The corresponding BNPI 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 x 83mm cell modules:

144 cells: XMHCJlxxxBFDG+H (BNPI Power range: 490 to 550 in step of 5);
 132 cells: XMHCJGxxxBFDG+H (BNPI Power range: 450 to 500 in step of 5);
 120 cells: XMHCJxxxBFDG+H (BNPI Power range: 405 to 455 in step of 5);
 144 cells: XMHCJlxxxBFDGB+H (BNPI Power range: 495 to 535 in step of 5);
 132 cells: XMHCJGxxxBFDGB+H (BNPI Power range: 455 to 490 in step of 5);
 120 cells: XMHCJxxxBFDGB+H (BNPI Power range: 410 to 445 in step of 5);
 156 cells: XMHCJRxxxBFDGBB+H (BNPI Power range: 540 to 570 in step of 5);
 144 cells: XMHCJlxxxBFDGBB+H (BNPI Power range: 495 to 525 in step of 5);
 132 cells: XMHCJGxxxBFDGBB+H (BNPI Power range: 450 to 480 in step of 5);
 120 cells: XMHCJxxxBFDGBB+H (BNPI Power range: 410 to 435 in step of 5);
 156 cells: XMHCJRxxxBFDGB+H (BNPI Power range: 545 to 575 in step of 5);
 156 cells: XMHCJRxxxBFDG+H (BNPI Power range: 540 to 570 in step of 5);

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210 x 105mm cell modules:

132 cells: XMHCJExxxBFDG+H (BNPI Power range: 717, 723,728,734,740,745,751,757,762,768,773,779,785,790,796,801,807,813);
 120 cells: XMHCJDxxxBFDG+H (BNPI Power range: 661,667,672,678,684,689,695,700,706,712,717,723,728);
 110 cells: XMHCJCxxxBFDG+H (BNPI Power range: 605,611,616,622,628,633,639,644,650,656,661);
 132 cells: XMHCJE5xxxBFDG+H (BNPI Power range: 762,768,773,779,785,790,796,801,807);

182 x 91.75mm cell modules:

144 cells: XMHCJQxxxBFDG+H (BNPI Power range: 616, 622,628,633,639,644,650,656,661,667,672);
 108 cells: XMHCJOxxxBFDG+H (BNPI Power range: 459,465,471,476,482,487,493,499,504);
 108 cells: XMHCJOxxxBFDGB+H (BNPI Power range: 471,476,482,487,493);
 108 cells: XMHCJOxxxBFDGGB+H (BNPI Power range: 471,476,482,487,493);

182 x 105mm cell modules:

132 cells: XMHCJE3xxxBFDG+H (BNPI Power range: 661,667,672,678,684,689,695,700,706);
 108 cells: XMHCJU3xxxBFDG+H (BNPI Power range: 538,543,549,555,560,566,571,577);
 96 cells: XMHCJV3xxxBFDG+H (BNPI Power range: 482,487,493,499,504,510,515);
 108 cells: XMHCJU3xxxBFDGGB+H (BNPI Power range: 527,532,538,543,549,555,560);
 108 cells: XMHCJU3xxxBFDGB+H (BNPI Power range: 527,532,538,543,549,555,560,566,571);
 96 cells: XMHCJV3xxxBFDGGB+H (BNPI Power range: 471,476,482,487,493,499);
 96 cells: XMHCJV3xxxBFDGB+H (BNPI Power range: 471,477,482,488,493,499,505);

Frameless:

166 x 83mm cell modules:
 144 cells: XMHCJlxxxBFDG+HSC (BNPI Power range: 490 to 550 in step of 5);
 132 cells: XMHCJGxxxBFDG+HSC (BNPI Power range: 450 to 500 in step of 5);
 120 cells: XMHCJxxxBFDG+HSC (BNPI Power range: 405 to 455 in step of 5);
 144 cells: XMHCJlxxxBFDGB+HSC (BNPI Power range: 495 to 535 in step of 5);
 132 cells: XMHCJGxxxBFDGB+HSC (BNPI Power range: 455 to 490 in step of 5);
 120 cells: XMHCJxxxBFDGB+HSC (BNPI Power range: 410 to 445 in step of 5);
 96 cells: XMHCJVxxxBFDGB+HSC (BNPI Power range: 325 to 350 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.



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**Tested
according to:**

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