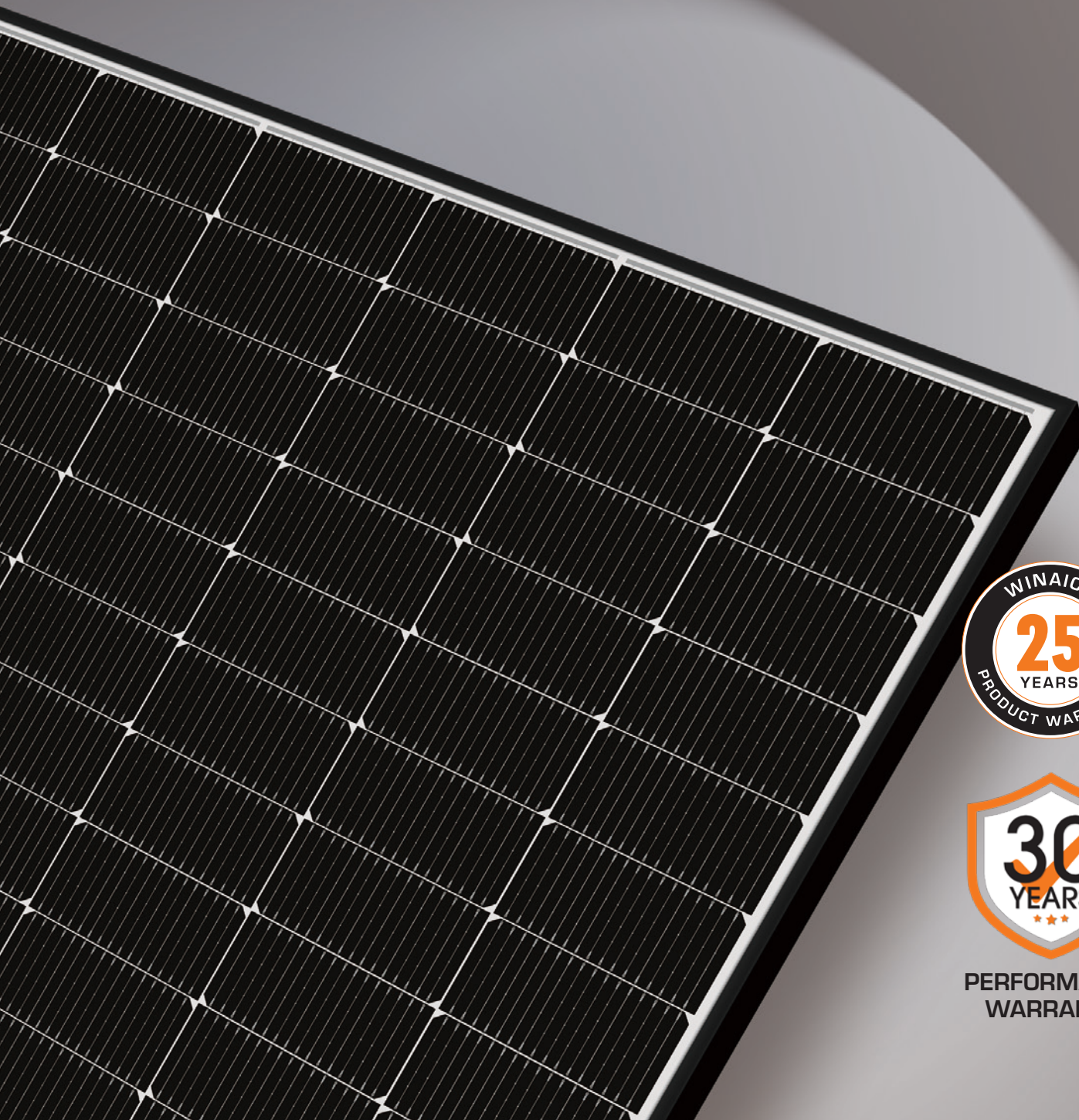


Up to 530 watt

WST-NGX-D3

N-Type Bifacial Glass-Glass Series

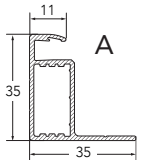
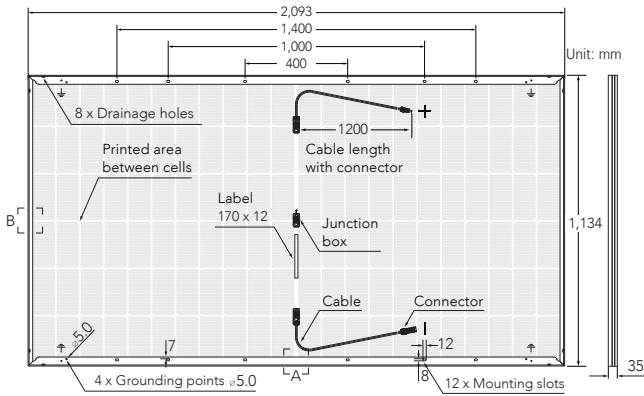


PERFORMANCE
WARRANTY

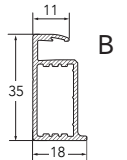


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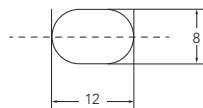
DIMENSIONS



Frame cross section A



Frame cross section B



Mounting slot

PACKAGING



2,143 mm



1,145 mm



1,257 mm



31 modules



982 kg

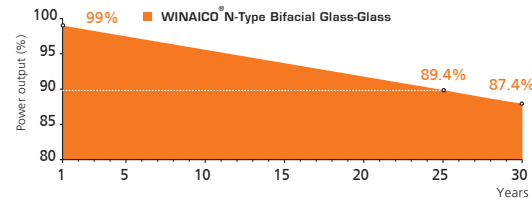


40'HC

MECHANICAL DATA WINAICO WST-NGX-D3 SERIES

| | |
|---|---|
| Cell | Monocrystalline, N-type, bifacial |
| Quantity and wiring of cells | 132 (6 strings x 22 cells) |
| Bifaciality | Up to 80 % |
| Dimensions | 2,093 x 1,134 x 35 mm |
| Weight | 29.7 kg (65.48 lbs) |
| Front-side glass | 2.0 mm, tempered solar glass with anti-reflective coating |
| Back-side glass | 2.0 mm, tempered solar glass, partially white printed |
| Encapsulant material | POE |
| Frame | Black anodised aluminium |
| Junction box | IP68, 3 bypass diodes |
| Cable length / Connector type (IEC/UL) | Cable 2 x 0.4 m / 4 mm ² , QC4.10 IP68 Cable 2 x 1.2 m / 4 mm ² , Stäubli MC4-EVO2A IP68 |
| Fire safety class ⁴ (IEC61730) | C |
| Protection class (IEC 61140) | II |

WINAICO PERFORMANCE GUARANTEE



25-year product warranty.
Linear performance guarantee for 30 years.
No more than 0.4% degradation per year from 2nd year to 30th year.

Operating conditions

Operating temperature

WINAICO WST-NGX-D3

-40 °C to +85 °C / -40 °F to +185 °F

Maximum system voltage IEC/UL

1,500V/1,500V

Maximum series fuse

30 A

Maximum design load (push/pull)

3,600 Pa/1,600 Pa

Maximum test load (push/pull)

5,400 Pa/2,400 Pa

Nominal module operating temperature NMOT

42 ± 2 °C

Temperature coefficient of P_{MAX}

-0.30%/°C

Temperature coefficient of V_{OC}

-0.25%/°C

Temperature coefficient of I_{SC}

0.045%/°C

Certifications

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

Electrical data (STC)¹

WST-525NGX-D3

WST-530NGX-D3

| Parameter | WST-525NGX-D3 | WST-530NGX-D3 | Unit |
|--|-----------------------|---------------|------|
| Nominal performance P _{MAX} | 525 | 530 | Wp |
| Voltage at maximum performance V _{MP} | 39.84 | 40.16 | V |
| Current at maximum performance I _{MP} | 13.18 | 13.20 | A |
| Open circuit voltage V _{OC} | 47.22 | 47.27 | V |
| Short circuit current I _{SC} | 13.81 | 13.89 | A |
| Module efficiency | 22.10 | 22.30 | % |
| Bifacial gain ³ *Depending on irradiation conditions | 10 % P _{mpp} | 578 (+53) | W |
| | 15 % P _{mpp} | 604 (+79) | W |
| | 20 % P _{mpp} | 630 (+105) | W |
| Power tolerance | 0~+5W | 0~+5W | W |

Electrical data (NMOT)²

WST-525NGX-D3

WST-530NGX-D3

| Parameter | WST-525NGX-D3 | WST-530NGX-D3 | Unit |
|--|---------------|---------------|------|
| Nominal performance P _{MAX} | 392 | 396 | Wp |
| Voltage at maximum performance V _{MP} | 37.64 | 37.97 | V |
| Current at maximum performance I _{MP} | 10.42 | 10.44 | A |
| Open circuit voltage V _{OC} | 44.61 | 44.70 | V |
| Short circuit current I _{SC} | 11.14 | 11.14 | A |

1. Electrical data applies under standard test conditions (STC): solar radiation 1,000 W/m² with light spectrum AM 1.5, with cell temperature 25 °C. Measurement tolerance of P_{MAX} at STC: ±3%. Accuracy of other electrical data: ±10%.

2. Electrical data applies under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20 °C, wind speed 1 m/s.

3. The additional power gain from the rear side depends on the irradiance conditions at the installation site and the mounting situation.

4. The fire safety test methods according to IEC 61730-2:2016 Annex B, Fire Tests of Roof Coverings.



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Power to Perform