

Up to 425 watt

WST-NGXB-D3 Full Black

N-Type Bifacial Glass-Glass Series

Higher yield panel design for commercial and residential owners



PERFORMANCE WARRANTY

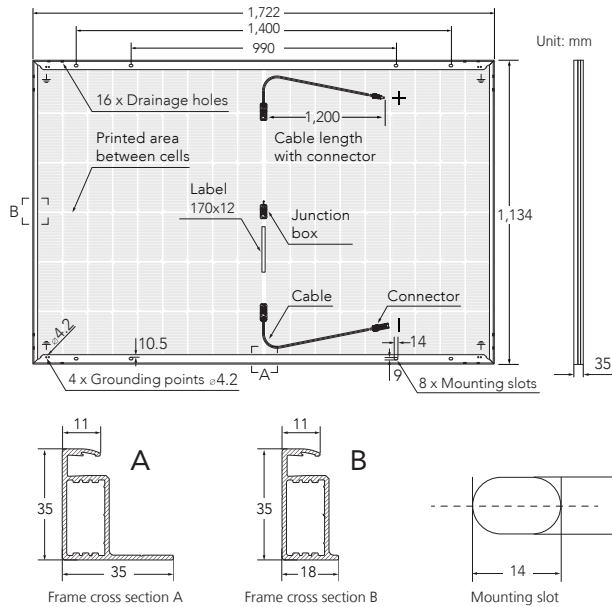


COMPLIMENTARY INSURANCE



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DIMENSIONS



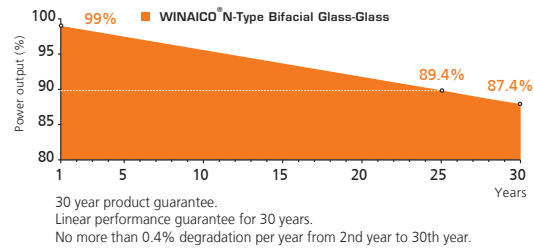
PACKAGING



MECHANICAL DATA WINAICO WST-NGXB-D3 SERIES

| | |
|------------------------------|---|
| Cell | Monocrystalline, N-type, bifacial |
| Quantity and wiring of cells | 108 (6 strings x 18 cells) |
| Bifaciality | Up to 80 % |
| Dimensions | 1,722 x 1,134 x 35 mm (67.80 x 44.65 x 1.38 in) |
| Weight | 24 kg (52.9 lbs) |
| Front-side glass | 2.0 mm, tempered solar glass with anti-reflective coating |
| Back-side glass | 2.0 mm, tempered solar glass, partially black printed |
| Encapsul material | POE |
| Frame | Black anodised aluminium |
| Junction box | IP68, 3 bypass diodes |
| Connector type | MC4-EVO2A IP68 |
| Cable length (IEC/UL) | Cable 2 x 1.2 m (47.24 in) / 4 mm ² |
| Module fire performance | 4 |
| Fire safety class | C |

WINAICO PERFORMANCE GUARANTEE



Operating conditions

| | |
|---|--|
| Operating temperature | |
| Maximum system voltage IEC/UL | |
| Maximum series fuse | |
| Maximum design load (push/pull) | |
| Maximum test load (push/pull) | |
| Nominal module operating temperature NMOT | |
| Temperature coefficient of P_{MAX} | |
| Temperature coefficient of V_{OC} | |
| Temperature coefficient of I_{SC} | |
| Certifications | |

WINAICO WST-NGXB-D3

| | |
|---|--|
| Operating temperature | -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

| | | |
|--------------------------------|-----------|--|
| Nominal performance | P_{MAX} | |
| Voltage at maximum performance | V_{MP} | |
| Current at maximum performance | I_{MP} | |
| Open circuit voltage | V_{OC} | |
| Short circuit current | I_{SC} | |
| Module efficiency | | |
| Bifacial gain ³ | 10 % Pmpp | |
| | 15 % Pmpp | |
| | 20 % Pmpp | |
| Power tolerance | | |

WST-425NGXB-D3 Full Black

| | | | |
|--------------------------------|-----------|-----------|----|
| Nominal performance | P_{MAX} | 425 | Wp |
| Voltage at maximum performance | V_{MP} | 32.35 | V |
| Current at maximum performance | I_{MP} | 13.14 | A |
| Open circuit voltage | V_{OC} | 38.54 | V |
| Short circuit current | I_{SC} | 13.79 | A |
| Module efficiency | | 21.76 | % |
| Bifacial gain ³ | 10 % Pmpp | 473 (+43) | W |
| | 15 % Pmpp | 494 (+64) | W |
| | 20 % Pmpp | 516 (+86) | W |
| Power tolerance | | -0/+5 | W |

Electrical data (NMOT)²

| | | |
|--------------------------------|-----------|--|
| Nominal performance | P_{MAX} | |
| Voltage at maximum performance | V_{MP} | |
| Current at maximum performance | I_{MP} | |
| Open circuit voltage | V_{OC} | |
| Short circuit current | I_{SC} | |

WST-425NGXB-D3 Full Black

| | | | |
|--------------------------------|-----------|-------|----|
| Nominal performance | P_{MAX} | 319 | Wp |
| Voltage at maximum performance | V_{MP} | 30.28 | V |
| Current at maximum performance | I_{MP} | 10.54 | A |
| Open circuit voltage | V_{OC} | 36.46 | V |
| Short circuit current | I_{SC} | 11.11 | A |

- 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%.
- 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.
- The additional power gain from the rear side depends on the irradiance condition at the installation site and the mounting situation.



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