

WST-NGX Glass-Glass Series

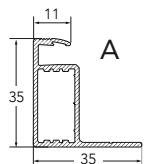
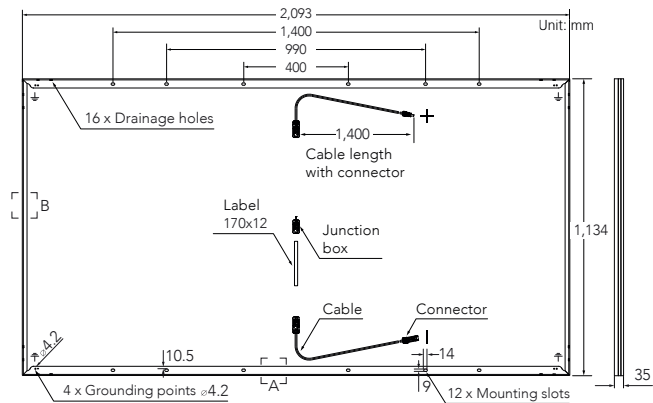
520 Watt



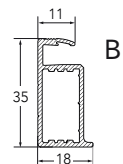
Power to Perform

www.winaico.com

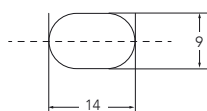
DIMENSIONS



Frame cross section A

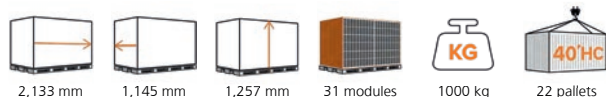


Frame cross section B



Mounting slot

PACKAGING

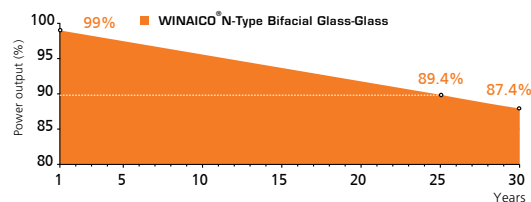


MECHANICAL DATA WINAICO WST-NGX GLASS-GLASS SERIES

| | |
|---------------------|--|
| Cell | Monocrystalline, N-type, bifacial |
| Bifaciality | 80 % ± 5 % |
| Quantity of cells | 132 (6 strings x 22 cells) |
| Dimensions | 2,093 x 1,134 x 35 mm |
| Weight | 28.8 kg |
| Front glass | 2.0 mm, tempered solar glass with anti-reflective coating |
| Encapsulat material | EVA / POE |
| Back glass | 2.0 mm, tempered solar glass, partially white printed |
| Frame | Black anodised aluminium |
| Junction box | IP68, 3 bypass diodes |
| Connection type | Cable 2 x 1.4 m / 4 mm ² MC4 compatible IP68 |
| Fire safety class | A |

WINAICO WARRANTY

| | |
|-----------------------|----------|
| Product warranty | 15 years |
| Performance guarantee | 30 years |



No more than 0.4% degradation per year from 2nd year to 25th year.

Operating conditions

| | |
|---|-------------------|
| Operating temperature | -40 °C to +85 °C |
| Maximum system voltage IEC/UL | 1,500 V/1,500 V |
| Maximum series fuse | 25 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 |

WINAICO WST-NGX-D3

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

Electrical data (STC)

| | | WST-520NGX | |
|--|-----------------------|------------|----|
| Nominal performance | P _{MAX} | 520 | Wp |
| Voltage at maximum performance | V _{MP} | 38.80 | V |
| Current at maximum performance | I _{MP} | 13.41 | A |
| Open circuit voltage | V _{OC} | 47.30 | V |
| Short circuit current | I _{SC} | 14.25 | A |
| Module efficiency | | 21.91 | % |
| Increased performance through Power Bifaciality* | 10 % P _{mpp} | 572 (+52) | W |
| | 15 % P _{mpp} | 598 (+78) | |
| | 20 % P _{mpp} | 624 (+104) | |
| Power tolerance | | -0/+5 | W |

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 (NMOT)

| | | WST-520NGX-D3 | |
|--------------------------------|------------------|---------------|----|
| Nominal performance | P _{MAX} | 388.3 | Wp |
| Voltage at maximum performance | V _{MP} | 44.53 | V |
| Current at maximum performance | I _{MP} | 11.13 | A |
| Open circuit voltage | V _{OC} | 37.32 | V |
| Short circuit current | I _{SC} | 10.40 | A |

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.



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