

Up to 430 watt

# WST-NGX-D3

## N-Type Bifacial Glass-Glass Series

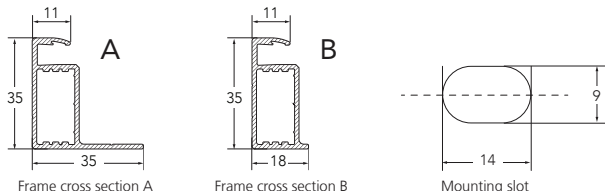
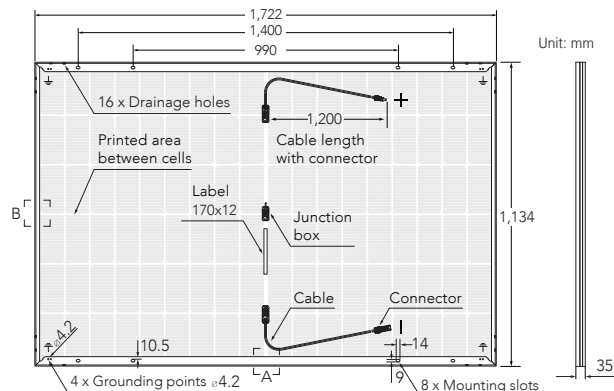
Higher yield panel design for commercial and residential owners



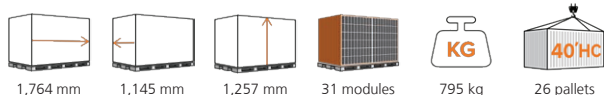
*Power to Perform*

[www.winaico.com](http://www.winaico.com)

## DIMENSIONS



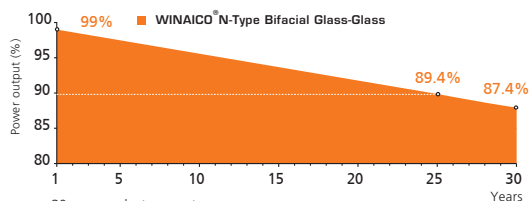
## PACKAGING



## MECHANICAL DATA WINAICO WST-NGX-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 white printed
Encapsulant 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 / 4 mm <sup>2</sup>
Fire safety class <sup>4</sup> (IEC61730)	C
Protection class (IEC 61140)	II

## WINAICO PERFORMANCE GUARANTEE



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

## 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-NGX-D3

-40 °C to +85 °C / -40 °F to +185 °F

1,500 V/1,500 V

30 A

5,400 Pa/2,400 Pa

8,100 Pa/3,600 Pa

42 ± 2 °C

-0.30%/°C

-0.25%/°C

0.045%/°C

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

## Electrical data (STC)<sup>1</sup>

Nominal performance

Voltage at maximum performance

Current at maximum performance

Open circuit voltage

Short circuit current

Module efficiency

Bifacial gain<sup>3</sup>

\*Depending on irradiation conditions

Power tolerance

## WST-430NGX-D3

430

32.68

13.16

38.60

13.80

22.02

10 %  $P_{MPP}$

15 %  $P_{MPP}$

20 %  $P_{MPP}$

-0/+5

Wp

V

A

V

A

%

W

W

W

W

## Electrical data (NMOT)<sup>2</sup>

Nominal performance

Voltage at maximum performance

Current at maximum performance

Open circuit voltage

Short circuit current

## WST-430NGX-D3

322

30.51

10.56

36.52

11.12

Wp

V

A

V

A

1. Electrical data applies under standard test conditions (STC): solar radiation 1,000 W/m<sup>2</sup> 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/m<sup>2</sup>, 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.



WINAICO Deutschland GmbH  
Tel. + 49 7933 700 300  
Fax + 49 7933 700 3010  
germany@winaico.com · www.winaico.com  
Industriestrasse 68, 97993 Creglingen, GERMANY



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