

Up to 525 watt

# WST-NGX-D3

N-Type Bifacial Glass-Glass Series

Higher yield solar panel design for a wide range  
of utility applications



PERFORMANCE  
WARRANTY

ECO

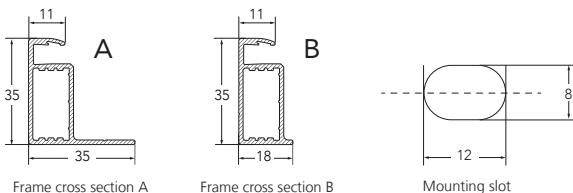
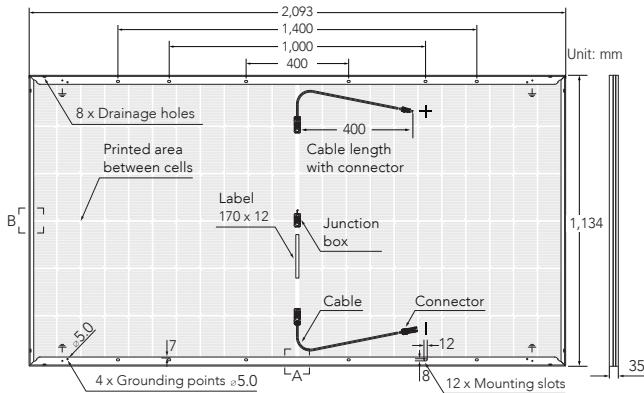


Power to Perform



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

## DIMENSIONS



## PACKAGING



## 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

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

Nominal performance	$P_{MAX}$	525	Wp
Voltage at maximum performance	$V_{MP}$	39.84	V
Current at maximum performance	$I_{MP}$	13.18	A
Open circuit voltage	$V_{OC}$	47.22	V
Short circuit current	$I_{SC}$	13.81	A
Module efficiency		22.10	%
Bifacial gain <sup>3</sup>	10 % Pmpp 15 % Pmpp 20 % Pmpp	577.5(+53) 603.75(+79) 630(+105)	W

\*Depending on irradiation conditions

Nominal performance	$P_{MAX}$	392	Wp
Voltage at maximum performance	$V_{MP}$	44.61	V
Current at maximum performance	$I_{MP}$	11.14	A
Open circuit voltage	$V_{OC}$	37.64	V
Short circuit current	$I_{SC}$	10.42	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.

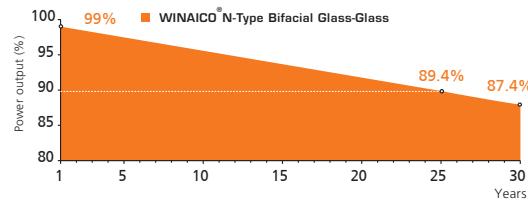


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## MECHANICAL DATA WINAICO WST-NGX-D3 SERIES

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
Connector type	QC4.10 IP68
Cable length (IEC/UL)	Cable 2 x 0.4 m / 4 mm <sup>2</sup>
Fire safety class <sup>4</sup> (IEC61730)	C
Protection class (IEC 61140)	II

## WINAICO PERFORMANCE GUARANTEE



## WINAICO WST-NGX-D3

-40°C to +85°C / -40°F to +185°F

1,500V/1,500V

30 A

3,600Pa/2,160Pa

5,400Pa/2,400Pa

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

## WST-525NGX-D3