

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



COMPLIMENTARY INSURANCE

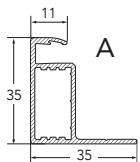
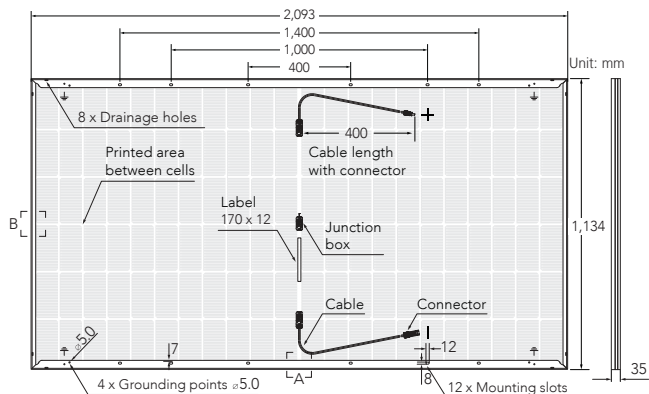


Power to Perform

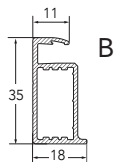


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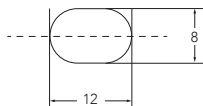
DIMENSIONS



Frame cross section A

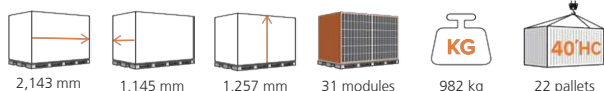


Frame cross section B



Mounting slot

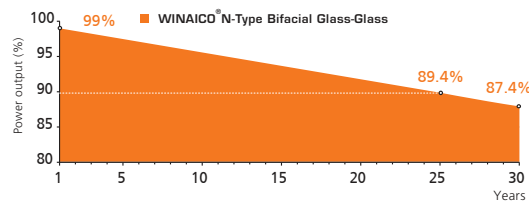
PACKAGING



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 (82.40 x 44.65 x 1.38 in)
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 ²
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	
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

1,500V/1,500V

30 A

3,600Pa/1,600Pa

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

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-525NGX-D3

525

39.84

13.18

47.22

13.81

22.10

577.5(+53)

603.75(+79)

630(+105)

0~+5W

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-525NGX-D3

392

44.61

11.14

37.64

10.42

- 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 conditions at the installation site and the mounting situation.
- The fire safety test methods according to IEC 61730-2:2016 Annex B, Fire Tests of Roof Coverings.



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