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

WINAICO 25 YEARS PRODUCT WARRANTY

30 YEARS

PERFORMANCE WARRANTY

2 YEARS

COMPLIMENTARY INSURANCE

WINAICO®

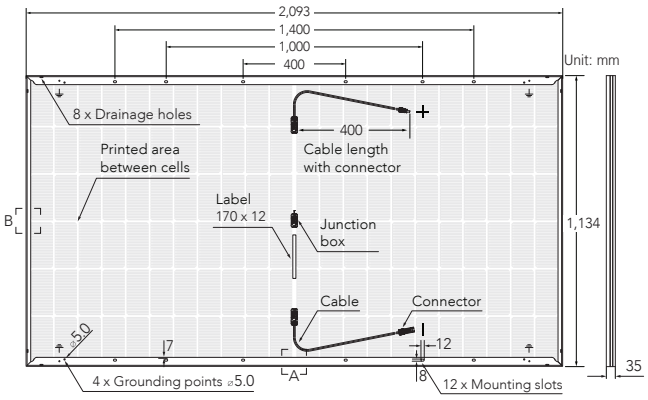
Power to Perform

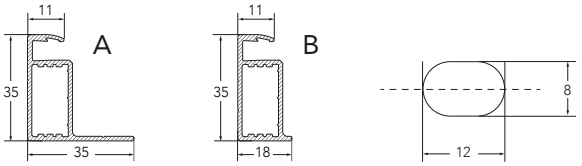
SOLAR PRO SUMER AWARD GERMANY MODULES PURCHASE RECOMMENDATION EUPD Research 2022/23

EUPD RESEARCH TOP BRAND PV MODULES GERMANY 2022

www.winaico.com.au

DIMENSIONS





Frame cross section A | Frame cross section B | Mounting slot

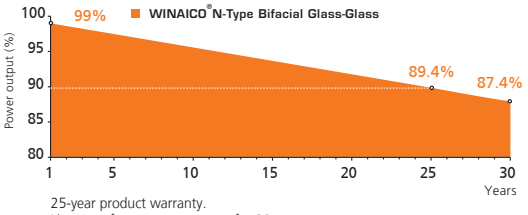
PACKAGING

2,143 mm | 1,145 mm | 1,257 mm | 31 modules | 982 kg | 22 pallets

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 mm²
Fire safety class[4] (IEC61730)	C
Protecion 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	WINAICO WST-NGX-D3
Operating temperature	–40 °C to +85 °C / –40 °F to +185 °F
Maximum system voltage IEC/UL	1,500 V/1,500 V
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]		WST-525NGX-D3	
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[3] *Depending on irradiation conditions	10 % Pmpp	577.5(+53)	W
	15 % Pmpp	603.75(+79)	W
	20 % Pmpp	630(+105)	W
Power tolerance		0~+5W	W

Electrical data (NMOT)[2]		WST-525NGX-D3	
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/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%.
2. 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.
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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