

WST-NGX Glass-Glass-Series

425 Watt Full Black

430 Watt

Hey! I am your module.

More warranty.

30 years product warranty.
30 year performance warranty.

More power.

Two-sided power generation (bifacial).
220.2 watts/m² power.
At least 87.4 % residual power after 30 years.

More safety.

Loadable up to 810 kg/m².
2 x 2 mm tempered glass with
anti-reflective coating.
35 mm frame thickness.

More protection.

Insurance cover for the complete
solar system included.



Mechanical Data WINAICO WST-NGX GLASS-GLASS-SERIES

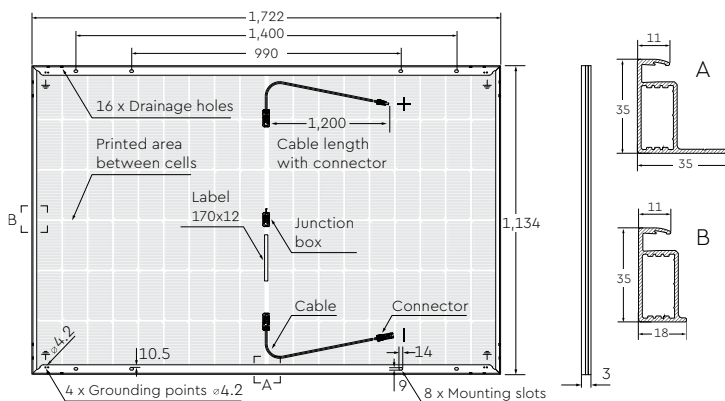
Cell	Monocrystalline N-type, bifacial
Bifacility	Up to 80 %
Quantity of cells	108 (6 × 18 half cells)
Dimensions	1,722 × 1,134 × 35 mm
Weight	24 kg
Glass thickness	2.0 mm, tempered, highly transparent glass with anti-reflective coating
Encapsulation	Polyolefin Elastomers (POE)
Back glass	2.0 mm, tempered, highly transparent glass, partially white/black printed
Frame	Black anodised aluminium
Junction box	IP68, 3 Schottky Diodes
Connector type	Cable 2 × 1.2 m / 4 mm ² Stäubli MC4 Evo2A
Safety class	II
Fire safety class	C (IEC 61730)

Warranty

Product warranty	30 years
Performance warranty	30 years
Annual power degradation	0.40 %
Performance after 25 years	> 87.4 % of rated power

The warranty conditions apply.

Dimensions in mm



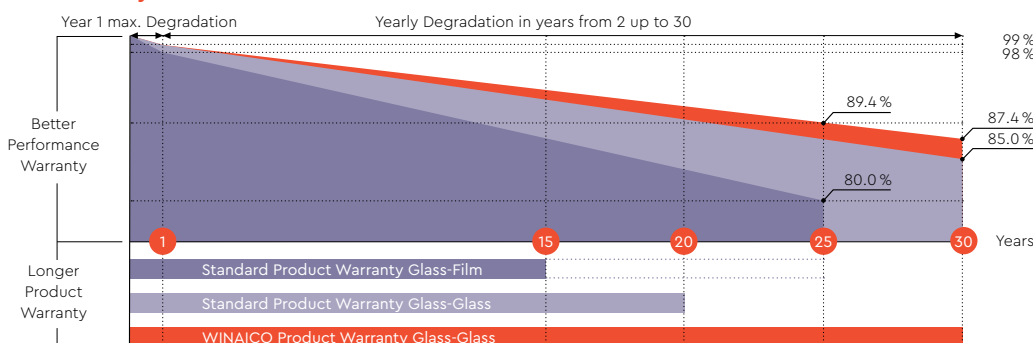
Operating conditions		WINAICO WST-NGX-D3	
Operating temperature	°C	-40 to +85	
Maximum system voltage	V	1,500	
Maximum series fuse I _R	A	30	
Maximum design load (push/pull)	Pa	5,400/2,400	
Maximum test load (push/pull)	Pa	8,100/3,600	
Temperature coefficient of P _{MAX}	%/K	-0.30	
Temperature coefficient of V _{OC}	%/K	-0.25	
Temperature coefficient of I _{SC}	%/K	0.045	
Nominal module operating temperature NMOT	°C	42 ± 2	

Electrical data			WST-430NGX-D3		WST-425NGXB-D3 Full Black	
			STC ¹	NMOT ²	STC ¹	NMOT ²
Nominal performance P _{MPP}	Wp		430	322	425	319
Voltage at maximum performance V _{MPP}	V		32.68	30.51	32.35	30.28
Current at maximum performance I _{MPP}	A		13.16	10.56	13.14	10.54
Open circuit voltage V _{OC}	V		38.60	36.52	38.54	36.46
Short circuit current I _{SC}	A		13.80	11.12	13.79	11.11
Module efficiency (STC)	%		22.02 (220.2 W/m²)		21.76 (217.6 W/m²)	
Increased performance through	10 % P _{MPP}	W	473 (+43)		467 (+42)	
Power Bifacility*	15 % P _{MPP}	W	494 (+64)		488 (+63)	
*Depending on irradiation conditions	20 % P _{MPP}	W	516 (+86)		510 (+85)	
Power tolerance	W		- 0/+5			

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.

Warranty service



Certifications

Standard IEC certifications:
IEC 61215:2016, IEC 61730:2016

Additional certifications:
PID
Ammonia resistance
Salt spray resistance
Hail storm resistance

WEEE Registration number:
DE85493209



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