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.

EUPD RESEARCH TOP BRAND PV MODULES GERMANY 2022

SOLAR PRO SUMER AWARD GERMANY >22.000 RATINGS MODULES PURCHASE RECOMMENDATION EUPD Research 2022/23

WINAICO®

Mechanical Data WINAICO WST-NGX GLASS-GLASS-SERIES

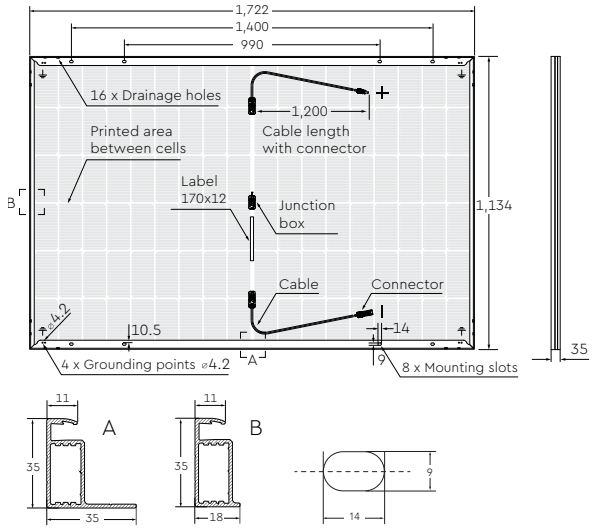
Cell	Monocrystalline N-type, bifacial
Bifacility	Up to 80 %
Quantity of cells	108 (6 × 18 half cells)
Dimensions	1,722 × 1,134 × 35 mm
Weight	24 kg
Glass thickness	2.0 mm, tempered, highly transparent glass with anti-reflective coating
Encapsulation	Polyolefin Elastomers (POE)
Back glass	2.0 mm, tempered, 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 mm² 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

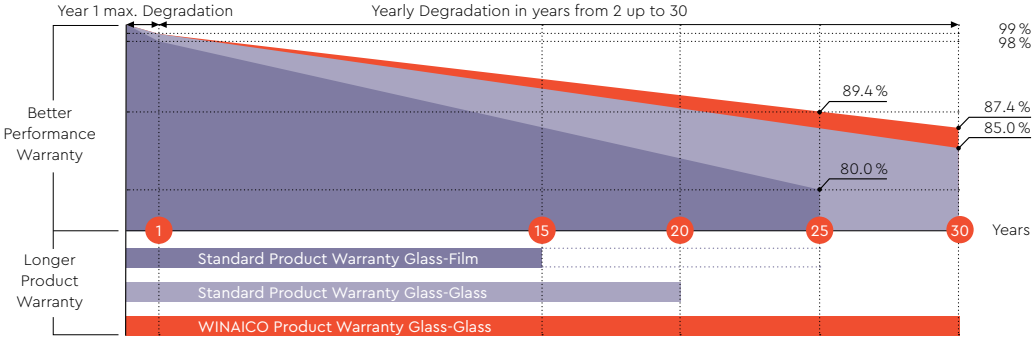


Operating conditions		WINAICO WST-NGX-D3
Operating temperature	°C	−40 to +85
Maximum system voltage	V	1,500
Maximum series fuse I_R	A	30
Maximum design load (push/pull)	Pa	5,400/2,400
Maximum test load (push/pull)	Pa	8,100/3,600
Temperature coefficient of P_{MAX}	%/°C	−0.30
Temperature coefficient of V_{OC}	%/°C	−0.25
Temperature coefficient of I_{SC}	%/°C	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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