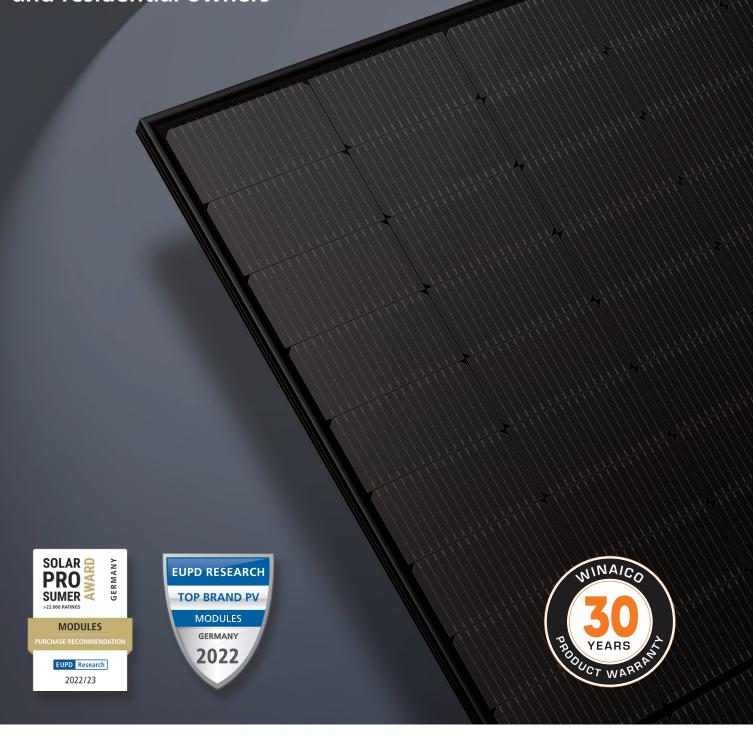
Up to 425 watt

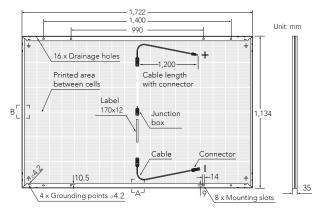
WST-NGXB-D3 Full Black

N-Type Bifacial Glass-Glass Series

Higher yield panel design for commercial and residential owners

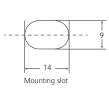












PACKAGING









MECHANICAL DATA WINAICO WST-NGXB-D3 SERIES

Cell Monocrystalline, N-type, bifacial Quantity and wiring of cells 108 (6 strings x 18 cells)

Bifaciality Up to 80 % Dimensions

1,722 x 1,134 x 35 mm (67.80 x 44.65 x 1.38 in)

Weight 24 kg (52.9 lbs) Front-side glass 2.0 mm, tempered solar glass with

anti-reflective coating

2.0 mm, tempered solar glass,

partially black printed

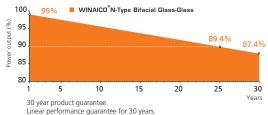
Encapsulant material

Back-side glass

Frame Black anodised aluminium IP68, 3 bypass diodes Junction box Connector type MC4-EVO2A IP68 Cable length (IEC/UL) Cable 2 x 1.2 m / 4 mm²

Fire safety class⁴ (IEC61730) C Protecion class (IEC 61140)

WINAICO PERFORMANCE GUARANTEE



Linear performance guarantee for 30 years.

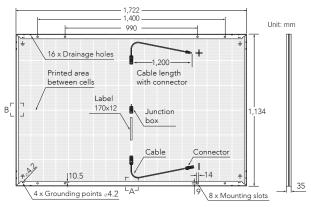
No more than 0.4% degradation per year from 2nd year to 30th year.

Operating conditions		WINAICO WST-NGXB-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)		5,400 Pa/2,400 Pa	
Maximum test load (push/pull)		8,100 Pa/3,600 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-425NGXB-D3 Full Black	
Nominal performance	P _{MAX}	425	Wp
Voltage at maximum performance	V_{MP}	32.35	V
Current at maximum performance	I _{MP}	13.14	А
Open circuit voltage	V_{oc}	38.54	V
Short circuit current	I _{sc}	13.79	А
Module efficiency		21.76	%
	10 % P _{MPP}	467 (+42)	W
Bifacial gain ³ *Depending on irradiation conditions	15 % P _{MPP}	488 (+63)	W
	20 % P _{MPP}	510 (+85)	W
Power tolerance		-0/+5	W
Electrical data (NMOT) ²		WST-425NGXB-D3 Full Black	
Nominal performance	P _{MAX}	319	Wp
Voltage at maximum performance	V_{MP}	30.28	V
Current at maximum performance	I _{MP}	10.54	А
Open circuit voltage	V _{oc}	36.46	V
Short circuit current	I _{sc}	11.11	А

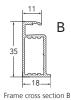
- Electrical data applies under standard test conditions (STC): solar radiation 1,000 W/m² with light spectrum AM 1.5, with cell temperature 25 °C. Measurement tolerance of P_{MAX} at STC: ±3%. Accuracy of other electrical data: ±10%
- Electrical data applies under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s
- 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.

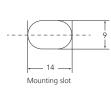




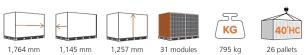








PACKAGING



MECHANICAL DATA WINAICO WST-NGXB-D3 SERIES

Cell Monocrystalline, N-type, bifacial Quantity and wiring of cells 108 (6 strings x 18 cells)

Bifaciality Up to 80 %

Dimensions 1,722 x 1,134 x 35 mm (67.80 x 44.65 x 1.38 in)

Weight 24 kg (52.9 lbs)

Front-side glass 2.0 mm, tempered solar glass with

anti-reflective coating

Back-side glass 2.0 mm, tempered solar glass,

partially black printed

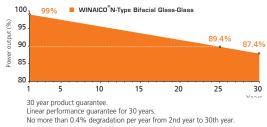
Encapsulat material

Frame Black anodised aluminium IP68, 3 bypass diodes Junction box MC4-EVO2A IP68 Connector type

Cable length (IEC/UL) Cable 2 x 1.2 m (47.24 in) / 4 mm²

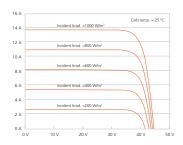
Module fire performance Fire safety class

WINAICO PERFORMANCE GUARANTEE



Operating conditions

operating terraitions	
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}	-0.3%/°C
Temperature coefficient of V _{oc}	-0.25%/°C
Temperature coefficient of I _{sc}	0.045%/°C



Electrical data (STC) ¹		WST-425NGXB-D3 Full Black	
Nominal performance	P_{MAX}	425	Wp
Voltage at maximum performance	V_{MP}	32.35	V
Current at maximum performance	I _{MP}	13.14	Α
Open circuit voltage	V _{oc}	38.54	V
Short circuit current	I _{sc}	13.79	Α
Module efficiency		21.76	%
Bifacial gain ³ *Depending on irradiation conditions	10 % Pmpp	473 (+43)	W
	15 % Pmpp	494 (+64)	W
	20 % Pmpp	516 (+86)	W
Power tolerance		-0/+5	W
Electrical data (NMOT) ²		WST-425NGXB-D3 Full Black	
Nominal performance	P_{MAX}	319	Wp
Voltage at maximum performance	V_{MP}	30.28	V
Current at maximum performance	I _{MP}	10.54	Α
Open circuit voltage	V _{oc}	36.46	V
Short circuit current	I _{sc}	11.11	Α

- 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
- 3. The additional power gain from the rear side depends on the irradiance condition at the installation site and the mounting situation



