

Up to 535 watt

# WST-535NGX-D3

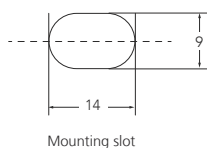
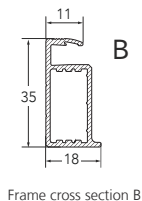
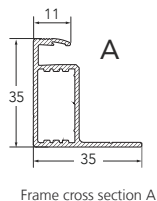
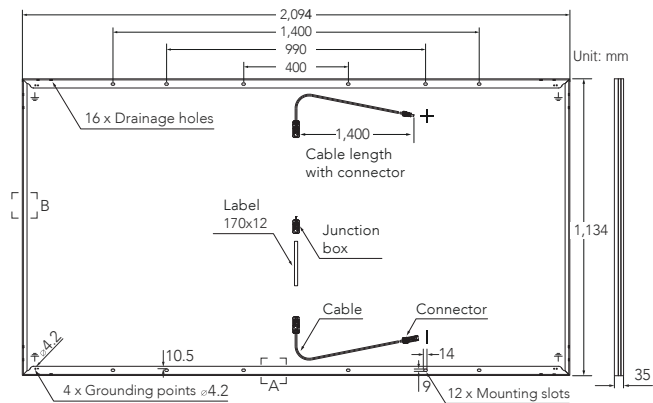
N-Type Bifacial Glass-Glass Series

Top performance for all applications

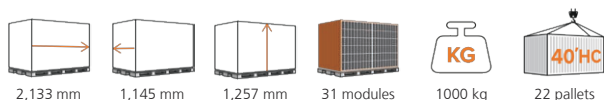


*Power to Perform*

## DIMENSIONS



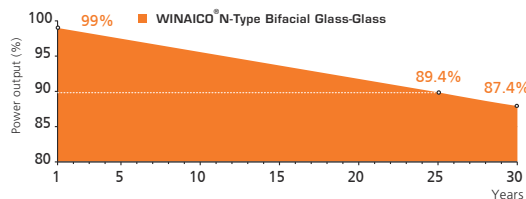
## PACKAGING



## MECHANICAL DATA WINAICO WST-NGX-D3 SERIES

Cell	Monocrystalline silicon cells
Quantity of cells	6 strings x 22 cells
Dimensions	2,094 x 1,134 x 35 mm (82.40 x 44.65 x 1.38 in)
Weight	28.8 kg (63.49 lbs)
Glass thickness	2.0 + 2.0 mm (0.08 + 0.08 in)
Frame	Black anodised aluminium
Junction box	Stäubli KST4-EVO2AS
Connector type	IP68
Module fire performance	Type 4
Cable length (IEC/UL)	1,400 mm (55.12 in)
Fire safety class	C

## WINAICO PERFORMANCE GUARANTEE



30 year product guarantee.  
Linear performance guarantee for 30 years.  
No more than 0.4% degradation per year from 2nd year to 30th year.

## Operating conditions

Operating conditions		WINAICO WST-NGX-D3			
Operating temperature		-40°C to +85°C / -40°F to +185°F			
Maximum system voltage IEC/UL		1,500V/1,500V			
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 <sub>MAX</sub>		-0.30%/°C			
Temperature coefficient of V <sub>OC</sub>		-0.25%/°C			
Temperature coefficient of I <sub>SC</sub>		0.045%/°C			
Certifications		IEC 61215-1:2016, IEC 61215-2:2016, IEC 61730-1:2016, IEC 61730-2:2016			

## Electrical data (STC)

Electrical data (STC)		WST-520NGX-D3	WST-525NGX-D3	WST-530NGX-D3	WST-535NGX-D3	
Nominal performance	P <sub>MAX</sub>	520	525	530	535	Wp
Voltage at maximum performance	V <sub>MP</sub>	39.52	39.84	40.16	40.47	V
Current at maximum performance	I <sub>MP</sub>	13.16	13.18	13.20	13.22	A
Open circuit voltage	V <sub>OC</sub>	47.17	47.22	47.27	47.42	V
Short circuit current	I <sub>SC</sub>	13.80	13.81	13.89	13.95	A
Module efficiency		21.91	22.10	22.30	22.50	%
Power tolerance		-0/+5				W

Electrical data applies under standard test conditions (STC): solar radiation 1,000 W/m<sup>2</sup> with light spectrum AM 1.5, with cell temperature 25°C. Measurement tolerance of P<sub>MAX</sub> at STC: ±3%. Accuracy of other electrical data: ±10%.

## Electrical data (NMOT)

Electrical data (NMOT)		WST-520NGX-D3	WST-525NGX-D3	WST-530NGX-D3	WST-535NGX-D3	
Nominal performance	P <sub>MAX</sub>	388	392	396	400	Wp
Voltage at maximum performance	V <sub>MP</sub>	44.53	44.61	44.70	44.79	V
Current at maximum performance	I <sub>MP</sub>	11.13	11.14	11.14	11.15	A
Open circuit voltage	V <sub>OC</sub>	37.32	37.64	37.97	38.30	V
Short circuit current	I <sub>SC</sub>	10.40	10.42	10.44	10.46	A

Electrical data applies under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.



**WINAICO Australia Pty Ltd**

Tel + 61 2 8091 2771  
australia@winaico.com  
<https://www.winaico.com.au/>  
3/393 George Street, Sydney NSW 2000, Australia



WINAICO is a trademark of  
Win Win Precision Technology Co., Ltd.

**Win Win Precision Technology Co., Ltd**

Tel + 886 3 568 8699 · info@w-win.com.tw  
www.wvpt.com.tw · www.winaico.com  
4F., No. 180, Sec. 2, Gongdao 5th Rd., East Dist.,  
Hsinchu City 300, Taiwan R.O.C.  
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