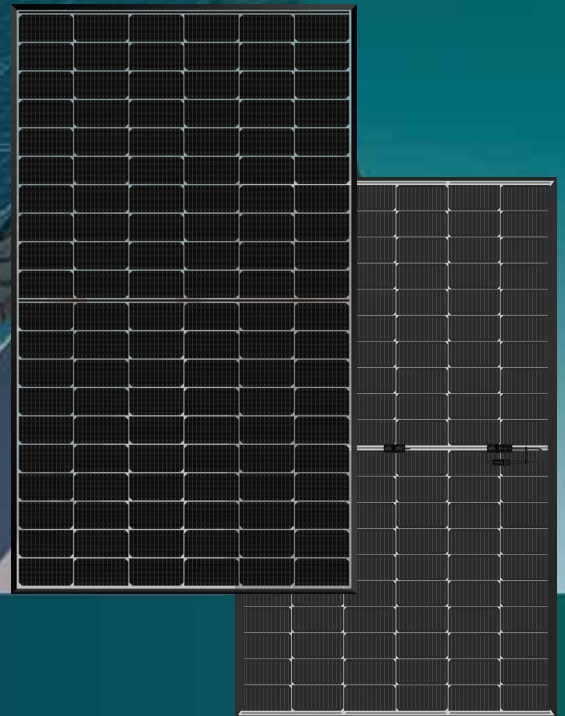




# SOLENSO

## NRJ-T120BB SERIES

375W 380W 385W 390W 395W 400W  
120-cell Bifacial Transparent HJT Half-Cut cell Solar Module



### CERTIFICATES



### ADVANTAGES & FEATURE

#### ● Up to 22.0% module efficiency

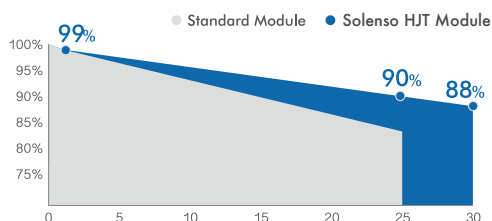
Using higher efficiency heterojunction solar cell, up to more than 22.0% module efficiency

#### ● High Energy Yield

Excellent weak light performance and better performance in hot climate. Leading lowest temperature coefficient of power.

#### ● SuperMBB Half-Cut Cell Technology

Using the advanced 12BB solar cell combines with half-cut cell technology to guarantee more power.



\* Refer to Solenso Standard warranty for details.

#### ● Enhanced Mechanical Load

Certified for snow load 5,400 Pa and wind loads 2,400 Pa

#### ● Excellent Bifacial Efficiency

Bifaciality > 90%, effectively improves backside power generation.

#### ● Industry Leading Output Warranty

- Solenso solar cell technology result in extremely low LID and Outstanding Anti-PID resistance.
- 12% power degradation in 30 years



## Electrical Characteristics

Model	NRJ-T120BB 375		NRJ-T120BB 380		NRJ-T120BB 385		NRJ-T120BB 390		NRJ-T120BB 395		NRJ-T120BB 400	
	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC
Rated Power in Watts-Pmax (Wp)	375	420	380	425	385	430	390	435	395	440	400	445
Open Circuit Voltage-Voc (V)	44.37	45.45	44.47	45.61	44.57	45.88	44.67	46.21	44.77	46.84	44.87	47.54
Short Circuit Current-Isc (A)	10.62	11.51	10.72	11.54	10.82	11.58	10.92	11.61	11.02	11.64	11.12	11.66
Maximum Power Voltage-Vmpp (V)	37.02	38.28	37.09	38.49	37.15	38.7	37.23	38.87	37.32	39.18	37.43	39.5
Maximum Power Current-Imp (A)	10.15	11.08	10.27	11.13	10.37	11.18	10.49	11.22	10.6	11.28	10.7	11.32
Module Efficiency (%)*	20.60%		20.90%		21.10%		21.40%		21.70%		22.00%	
Operating Module Temperature	-40 to +85°C											
Maximum System Voltage	DC1500V (IEC)											
Maximum Series Fuse	20A											
Rating Power Sorting	0~+ 5W											
Bifaciality (%)	90±5											

\* STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, AM=1.5; Best in Class AAA solar simulator used, power measurement uncertainty is within +/- 3%.

\* BSTC : Front side irradiation 1000W/m<sup>2</sup>, back side reflection irradiation 135W/m<sup>2</sup>, spectrum AM1.5, ambient temperature 25°C. Values are based on RETC certified results from a light-soaked module.

## Mechanical Characteristics

Laminate Structure	Glass/ POE/ Cells/ POE/Glass
Cell Type	120 HJT Cell / 166 x 83 mm
Module Dimensions	1755 x 1038 x 30 mm
Weight	23.5 kg
Junction Box	Degree of protection IP67/IP68
Output Cable	4mm <sup>2</sup> , 200mm in length, length can be customized
Connectors Type	Compatible MC4
Frame	Anodised Aluminum Alloy
Encapsulant	POE
Front Load*	5400 Pa
Rear Load*	2400 Pa
Glass Thickness	(F) 2.0mm Anti-reflective surface PV glass (B) 2.0mm Transparent PV glass

\* Mechanical load test report per Solar PTL (IEC 61730)

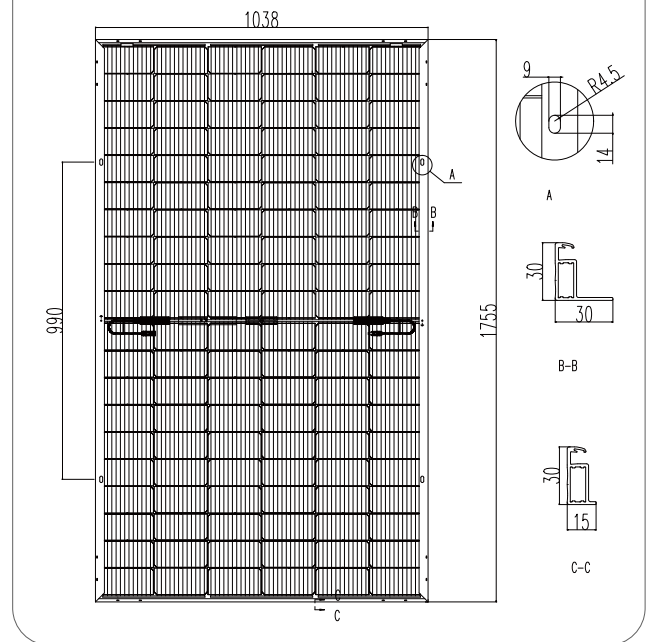
## Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44°C (±2°C)
Temperature Coefficient of Pmax	-0.26 %/°C
Temperature Coefficient of Voc	-0.24 %/°C
Temperature Coefficient of Isc	0.04 %/°C

## Shipping Configurations

	HC
Container Length	40'
Pallets Per Container	26
Modules Per Pallet	36
Modules Per Container	936

## Engineering Drawings



## Certifications & Warranty

Safety	Class II
Fire Rating	Class A
Product Warranty	20 Yrs Workmanship
Performance Warranty of Pmax	30 Yrs Power Output (Linear)*

\* 1st year 99%, after 2nd year 0.37% annual degradation to year 30.

