



SOLENSO

NRJ-W120SS SERIES

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

CERTIFICATES



ADVANTAGES & FEATURE

● Up to 22% module efficiency

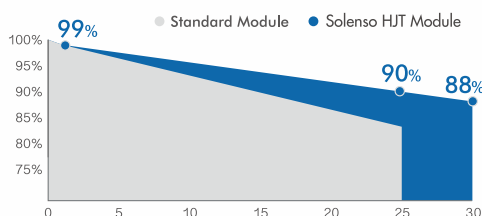
Using higher efficiency heterojunction solar cell, up to more than 22% module efficiency

● 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.



● 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--W120SS 380		NRJ--W120SS 380		NRJ--W120SS 385		NRJ--W120SS 390		NRJ--W120SS 400	
	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC
Rated Power in Watts-Pmax (Wp)	380	420	385	425	390	430	395	435	400	440
Open Circuit Voltage-Voc (V)	37.52	45.34V	44.35	45.61	44.48	45.94	44.61	46.81	44.74	47.51
Short Circuit Current-Isc (A)	10.14	11.49	10.56	11.53	10.62	11.57	10.68	11.61	10.74	11.65
Maximum Power Voltage-Vmpp (V)	37.02	38.31	37.7	38.5	37.91	38.67	38.16	38.93	38.36	39.2
Maximum Power Current-Imp (A)	10.15	11.09	10.22	11.13	10.3	11.18	10.36	11.23	10.44	11.28
Module Efficiency (%) *	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/m², 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/m², back side reflection irradiation 135W/m², spectrum AM1.5, ambient temperature 25°C.Values are based on RETC certified results from a light-soaked module.

Mechanical Characteristics

Cell Type	120 HJT Cell / 166 x 83 mm
Module Dimension	1755 x 1038 x30 mm
Weight	23.5 kg
Junction Box	IP67/IP68
Output Cable	4mm ² , 200mm in length, length can be customized
Connectors Type	MC4 Compatible
Frame	Anodised Aluminum Alloy
Encapsulant	POE
Front Load	5400 Pa
Rear Load	2400 Pa
Glass	(F) 2.0mm Anti-reflective surface Solar glass (B) 2.0mm white ceramic patterned PV glass

Shipping Configurations

	HC
container length	40'
pallets per container	26
modules per pallet	36
modules per container	936

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

Safety & Warranty

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

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

Engineering Drawings

