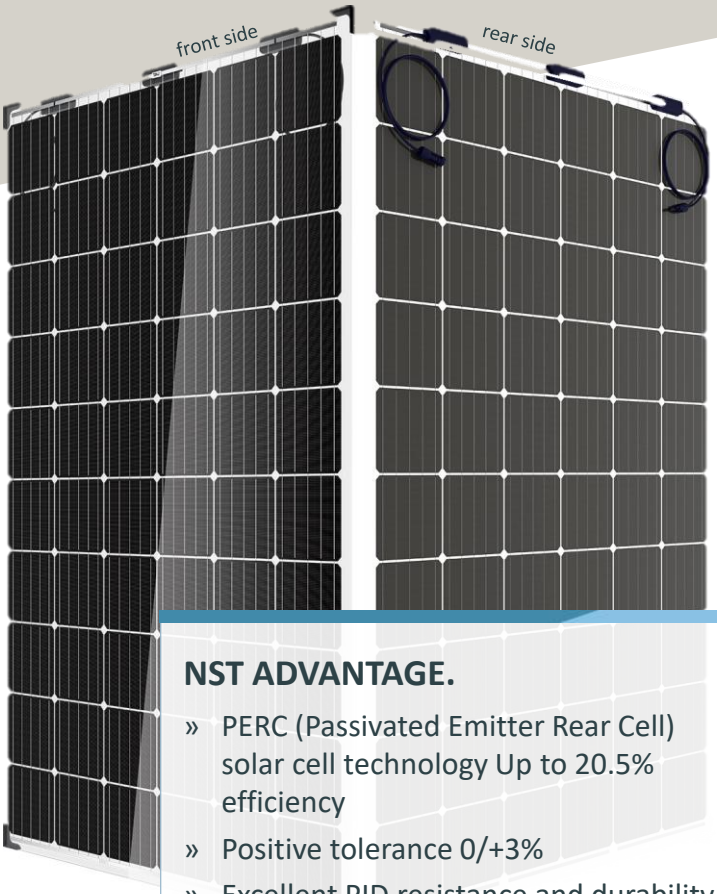
MAXIMIZING PERFORMANCE.
BIFACIAL MODULES WITH PERC CELLS.

NST60-6-295-310Wp-PEBI-GG-10.

BOOSTIG PERFORMANCE BY CAPTURING THE LIGHT TWICE: FRONT & REAR-SIDE GENERATION FOR HIGHEST YIELDS



NST ADVANTAGE.

- PERC (Passivated Emitter Rear Cell) solar cell technology Up to 20.5% efficiency
- Positive tolerance 0/+3%
- Excellent PID resistance and durability against harsh conditions
- Up to 25% energy generation bonus from rear side

PERC Technology

PERC BIFACIAL SOLAR CELL

PERC panels have a higher energy density per square foot and perform well under high temperatures.

Power Output

HIGHER POWER OUTPUT

Module power increases 5-25% generally (per different reflective condition) lower LCOE and higher IRR

Low Light

LOW-LIGHT PERFORMANCE

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.

2400 Pa | 5400 Pa

SEVERE WEATHER RESILIENCE

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

Resistant

DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS

High salt mist and ammonia resistance certified by KIWA.

30 Years

30-YEARS LINEAR PERFORMANCE WARRANTY

15-years limited warranty for materials and workmanship and NST guarantee that each module shall deliver the following minimum output as shown in the datasheet for each module: **0.5% annual degradation over 30 years.**

About NOOR Solar Technology (NST)

NST is a leading provider and manufacturer of smart energy solutions with high performance and top quality standards. NST products are ideal for utility-scale PV power plants, as well as residential and commercial rooftop installations. NST and its trusted technology partners provide innovative renewable energy solutions meeting the highest standards in terms of reliability, safety and durability – guaranteed by one of the world-leading re-insurance groups. With NST's premium products, investors and owners enjoy long-term returns on investment and savings on their electricity bill.

PREMIUM PRODUCTS – PREMIUM RESULTS!

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NST – Version 1/2019

PRODUCT DATASHEET.

BIFACIAL MODULES WITH PERC CELLS.

NST60-6-295-310Wp-PEBI-GG-10.

ENGINEERING DRAWINGS & TECHNICAL PARAMETERS

PHYSICAL PARAMETERS

Solar cell	PERC Bifacial Monocrystalline 156.75 X 156.75 mm
Cell configuration	60 cell (10 x 6)
Module dimension	1658 x 992 x 6.3 mm
Weight	23 kg
Front glass	2 mm, high transmission, low iron, tempered ARC glass
Back glass	2 mm, tempered glass
Interlayer	0.5 POE (white)
J-Box	IP67, 1000VDC, 3 bypass diodes
Cables	4.0 mm (12AWG), 1100 mm length (customer demand)
Connector	IP67 MC4 or its compatible

ELECTRICAL PARAMETERS (STC)

TYPE	NST60-6-295 PEBI GG	NST60-6-300 PEBI GG	NST60-6-305 PEBI GG	NST60-6-310 PEBI GG
Rated maximum power at STC (Wp)	295	300	305	310
Open circuit voltage Voc (V)	39.4	39.7	40.0	40.4
Maximum power voltage Vmpp (V)	31.8	32.1	32.3	32.5
Short circuit current Isc (A)	9.73	9.81	9.89	9.98
Maximum power current Impp (A)	9.28	9.35	9.45	9.54
Module efficiency (%)	17.94	18.24	18.55	18.85

STC: Irradiance 1000W/m^2, cell temperature 25°C, air mass 1.5

BI-FACIAL OUTPUT – BACKSIDE POWER GAIN

5 %	Power Output (W) Module Efficiency (%)	310 18.8	315 19.1	320 19.4	326 19.8
15 %	Power Output (W) Module Efficiency (%)	339 20.6	345 20.9	351 21.3	357 21.7
25 %	Power Output (W) Module Efficiency (%)	369 22.4	375 22.8	381 23.1	388 23.6

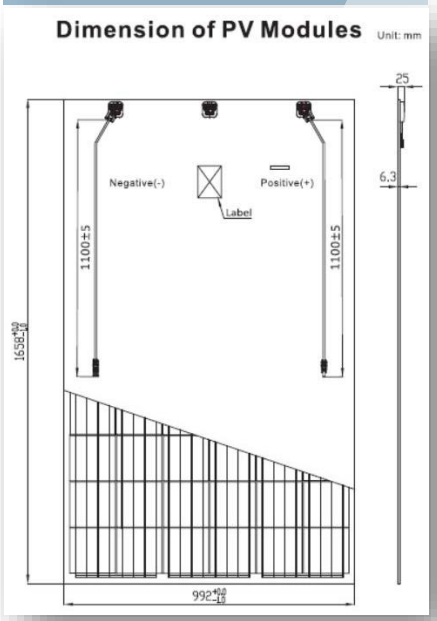
TEMPERATURE COEFFICIENT AND PARAMETERS

Nominal operating cell temperature (NOCT)	45°C ± 2°C
Temperature coefficient of Pmax	-0.385%/°C
Temperature coefficient of Voc	-0.32%/°C
Temperature coefficient of Isc	0.055%/°C
Operating temperature	-45°C~+85°C
Maximum system voltage	1000VDC
Limiting reverse current	15A
Maximum series fuse rating	15A
Power tolerance (W)	0/+3%
Application class	Class A
Wind and snow front load	Up to 5,400 Pa
Wind back load	2,400 Pa

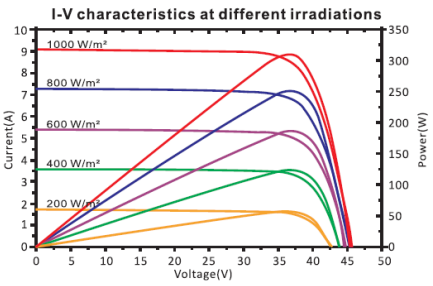
PACKAGING CONFIGURATION

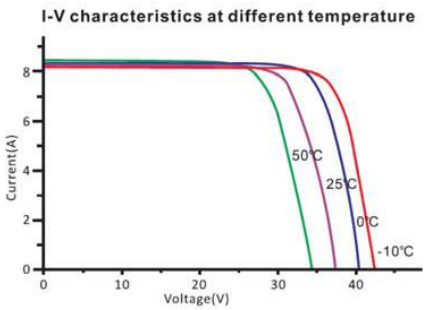
	40ft	20ft
Number of modules per container	780	360
Number of modules per pallet	30	30
Number of pallets per container	26	12
Packing box dimension (L x W x H) in mm	1770 x 1140 x 1184	1770 x 1140 x 1183
Box gross weight (Kg)	753	753

DIMENSION OF PV MODULE



I-V CURVE





AUTHORIZED PARTNER OF NST