

MAXIMIZING PERFORMANCE. BIFACIAL MODULES WITH PERC CELLS.



NST72-6-395-410Wp-PEBI-GG-10.

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



NST ADVANTAGE.

- » PERC (Passivated Emitter Rear Cell) Technology with up to 20.52 % efficiency from Front side.
- » Positive tolerance 0/+3%
- » Excellent PID resistance and durability against harsh conditions
- » Up to 25% energy generation bonus from rear side



5 BUS BAR

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!

PRODUCT DATASHEET.

BIFACIAL MODULES WITH PERC CELLS.

NST72-6-395-410Wp-PEBI-GG-10.

ENGINEERING DRAWINGS & TECHNICAL PARAMETERS

PHYSICAL PARAMETERS

Solar cell	PERC Bifacial Monocrystalline 158.75 X 158.75 mm
Cell configuration	72 cell (12 x 6)
Module dimension	2002 x 998 x 5.5 mm
Weight	26 kg
Front glass	2 mm, high transmission, low iron, tempered ARC glass
Back glass	2 mm, tempered glass
Interlayer	0.45 EVA (white)
J-Box	IP67, 1000VDC, 3 bypass diodes
Cables	4.0 sqmm (12AWG), 500 mm length (customer demand)
Connector	IP67 MC4 or its compatible

ELECTRICAL PARAMETERS (STC)

TYPE	NST72-6-395 M	NST72-6-400 M	NST72-6-405 M	NST72-6-410 M
Rated maximum power at STC (Wp)	395	400	405	410
Open circuit voltage Voc (V)	48.9	49.1	49.3	49.5
Maximum power voltage Vmpp (V)	40.2	40.5	40.8	41.1
Short circuit current Isc (A)	10.36	10.44	10.52	10.60
Maximum power current Impp (A)	9.83	9.88	9.93	9.98
Module efficiency (%)	19.76	20.02	20.27	20.52

STC: Irradiance 1000W/m², cell temperature 25°C, air mass 1.5

BI-FACIAL OUTPUT - Backside Power Gain

		NST72-6-395	NST72-6-400	NST72-6-405	NST72-6-410
5 %	Power Output (W)	414.75	420.0	425.25	430.50
	Module Efficiency (%)	20.76	21.02	21.28	21.55
15 %	Power Output (W)	454.25	460	465.75	471.50
	Module Efficiency (%)	22.74	23.02	23.31	23.60
25 %	Power Output (W)	493.75	500.0	506.25	512.50
	Module Efficiency (%)	24.71	25.03	25.34	25.65

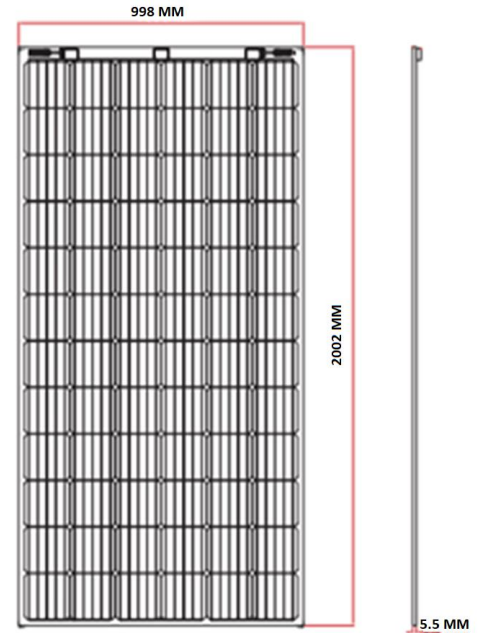
TEMPERATURE COEFFICIENT AND PARAMETERS

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

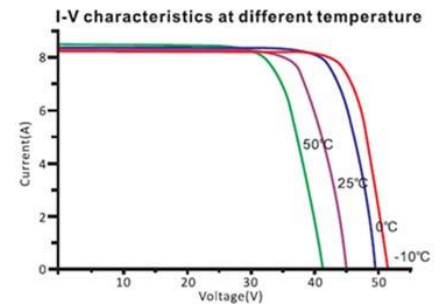
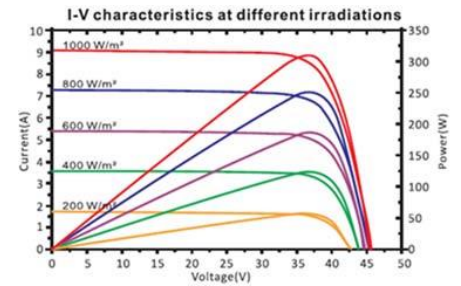
PACKAGING CONFIGURATION

	40ft	20ft
Number of modules per container	660	300
Number of modules per pallet	30	30
Number of pallets per container	22	10
Packing box dimension (L x W x H) in mm	2100 x 1100 x 1200	2100 x 1100 x 1200
Box gross weight (Kg)	770	770

DIMENSION OF PV MODULE



I-V CURVE



AUTHORIZED PARTNER OF NST