

# HIGH PERFORMANCE. MONO CRYSTALLINE PERC MODULE.



## NST72-6-390-410Wp-PERC-S-10.

HIGHEST PERFORMANCE THROUGH STATE-OF-THE-ART CELL TECHNOLOGY



### NST ADVANTAGE.

- » PERC (Passivated Emitter Rear Cell) solar cell technology Up to 20.79% Module efficiency
- » Positive tolerance 0 to +3%
- » Excellent PID resistance
- » More flexibility in design and less BOS costs
- » 1000VDC system voltage



PERCTechnology

### PERC SOLARCELL

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



Conversion

### HIGH EFFICIENCY

High module conversion efficiency up to 20.79% through innovative manufacturing technology.



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.



Performance

### 25-YEARS LINEAR PERFORMANCE WARRANTY

12-years limited warranty for materials and workmanship. NST guarantees that each module shall deliver the following minimum output as shown in the datasheet for.

## 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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## NST72-6-390-410Wp-PERC-S-10.

### ENGINEERING DRAWINGS & TECHNICAL PARAMETERS

#### PHYSICAL PARAMETERS

Solar Cell	Mono-crystalline PERC 158.75 x 158.75 mm
Cell Configuration	72 cell (12 x 6)
Module Dimension	1980 x 996 x 35 mm
Weight	22.5 kg
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Backsheet
Frame	Silver Anodized Aluminum Alloy Type 6063T5, Silver Colour
J-Box	IP67, 1000VDC, 3 Bypass Diodes
Cables	4.0 sqmm (12AWG), 1200 mm Length (Customer Demand)
Connector	IP67 MC4 Compatible

#### ELECTRICAL PARAMETERS (STC)

TYPE	NST72-6-390M	NST72-6-395M	NST72-6-400M	NST72-6-405M	NST72-6-410M
Rated Maximum Power at STC (Wp)	390	395	400	405	410
Open Circuit Voltage Voc (V)	48.7	48.9	49.1	49.3	49.5
Maximum Power Voltage Vmpp (V)	39.9	40.2	40.5	40.8	41.1
Short Circuit Current Isc (A)	10.28	10.36	10.44	10.52	10.60
Maximum Power Current Imp (A)	9.78	9.83	9.88	9.93	9.98
Module Efficiency (%)	19.78	20.03	20.28	20.54	20.79

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, air mass 1.5

#### ELECTRICAL PARAMETERS (NOCT)

TYPE	NST72-6-390M	NST72-6-395M	NST72-6-400M	NST72-6-405M	NST72-6-410M
Max Power Pmax (Wp)	302	306	310	314	318
Open Circuit Voltage Voc (V)	48.2	48.5	48.8	49.1	49.4
Max Power Voltage Vmpp (V)	39.4	39.7	40.0	40.3	40.7
Short Circuit Current Isc (A)	8.29	8.35	8.41	8.47	8.53
Max Power Current Imp (A)	7.67	7.71	7.74	7.78	7.82

NOCT: Under Normal Operating Cell Temperature, Irradiance of 800 W/m<sup>2</sup>, Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

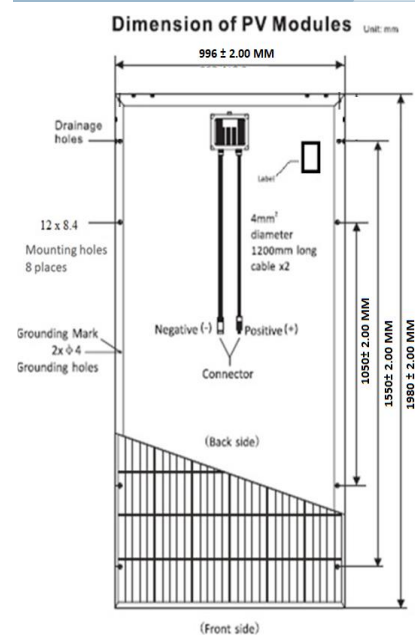
#### TEMPERATURE COEFFICIENT AND PARAMETERS

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature Coefficient of Pmax	-0.39%/°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 to +3%
Application Class	Class A
Wind and Snow Front Load	Up to 5,400 Pa
Wind Back Load	2,400 Pa

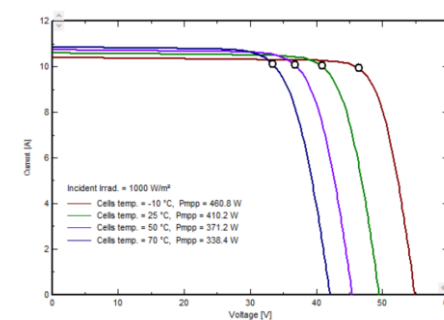
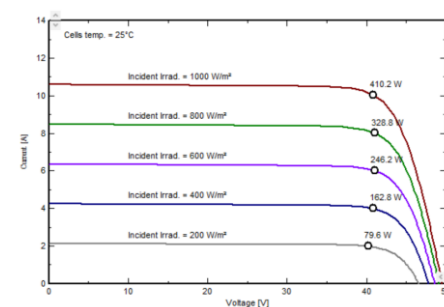
#### PACKAGING CONFIGURATION

	40ft	20ft
Number of Modules per Container	660	300
Number of Modules per Pallet	30	30
Number of Pallets per Container	22	10
Box Dimension (L x W x H) in mm	1995 x 1100 x 1210	1995 x 1100 x 1210
Box Gross Weight (Kg)	700	700

#### DIMENSION OF PV MODULE UNIT



#### I-V CURVE



#### AUTHORIZED PARTNER OF NST

