# HIGH PERFORMANCE. MONO CRYSTALLINE PERC MODULE.



# NST60-6-290-310Wp-PERC-S-10.

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





#### PERC SOLAR CELL

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



#### HIGH EFFICIENCY

High module conversion efficiency up to 20.5 %. through innovative manufacturing technology.



LOW-LIGHT PERFORMANCE

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



#### SEVERE WEATHER RESILIENCE

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



# DURABILITY AGAINST EXTREME ENVIRONMENTAL CONDITIONS

High salt mist and ammonia resistance certified by TUV NORD.



#### 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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### **ENGINEERING DRAWINGS & TECHNICAL PARAMETERS**

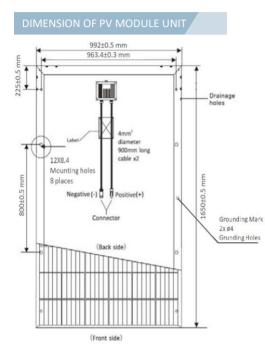
PHYSICAL PARA	METERS
Solar Cell	Mono-Crystalline PERC 156.75 x 156.75 mm
Cell Configuration	60 cell (10 x 6)
Module Dimension	1650 x 992 x 34 mm
Weight	19 kg
Superstrate	3.2 mm, High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Backsheet
Frame	Silver Anodized Aluminum Alloy Type 6063T5, Silver Color
J-Box	IP67, 1000VDC, 3 Bypass Diodes
Cables	4.0 mm (12AWG), 900 mm Length (Customer Demand)
Connector	IP67 MC4 or its Compatible

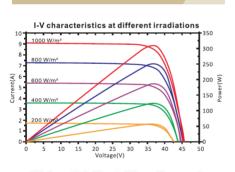
ELECTRICAL PARAMETERS	(STC)					
ТҮРЕ	NST PERC 290	NST PERC 295	NST PERC 300	NST PERC 305	NST PERC 310	
Rated Maximum Power at STC (Wp)	290	295	300	305	310	
Open Circuit Voltage Voc (V)	39.5	39.7	40.1	40.2	40.5	
Maximum Power Voltage Vmpp (V)	32.2	32.4	32.6	32.8	33.0	
Short Circuit Current Isc (A)	9.55	9.61	9.72	9.83	9.94	
Maximum Power Current Impp (A)	9.02	9.10	9.21	9.30	9.41	
Module Efficiency (%)	17.7	18.0	18.3	18.6	18.9	
STC: Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, air mass 1.5						

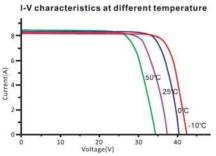
#### NST PERC 290 **NST PERC 295 NST PERC 300 NST PERC 305 NST PERC 310** Max Power Pmax (Wp) 216 220 224 228 232 Open Circuit Voltage Voc (V) 36.6 36.8 37.0 37.2 37.4 Max Power Voltage Vmpp (V) 30.2 30.4 30.6 30.8 40.0 Short Circuit Current Isc (A) 7.81 7.89 8.07 8.15 8.23 Max Power Current Impp (A) 7.15 7.24 7.32 7.40 7.48 NOCT: Under Normal Operating Cell Temperature, Irradiance of 800 W/m2, Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

#### Nominal Operating Cell Temperature (NOCT) 45°C ± 2°C Temperature Coefficient of Pmax -0.39%/°C -0.32%/°C Temperature Coefficient of Voc Temperature Coefficient of Isc 0.055%/°C **Operating Temperature** -45°C~+85°C 1000VDC Maximum System Voltage 15A Limiting Reverse Current Maximum Series Fuse Rating 15A Power Tolerance (W) 0/+3% **Application Class** Class A Wind and Snow Front Load Up to 5,400 Pa 2,400 Pa Wind Back Load

PACKAGING CONFIGURATION		
	40ft	20ft
Number of Modules per Container	840	360
Number of Modules per Pallet	30	30
Number of Pallets per Container	28	12
Box Dimension (L x W x H) in mm	1680 x 1090 x 1120	1680 x 1090 x 1120
Box Gross Weight (Kg)	580	580







AUTHORIZED PARTNER OF NST	