HIGH PERFORMANCE.
POLYCRYSTALLINE MODULE.

SOLAR TECHNOLOGY

NST72-6-320-340Wp-HPP-S-15.

COMMITMENT TO QUALITY, PRODUCTIVITY & SUSTAINABILITY

NST ADVANTAGE.

- » Up to 19.00% efficiency
- » Positive tolerance 0/+3%
- » Excellent PID resistance
- » Robust design
- » 1500VDC system voltage

4/5 BUS BAR

4/5 BUS BAR SOLAR CELL

4/5 bus bar solar cell adopts new technology to improve the efficiency of modules and offers a better aesthetic appearance, making it perfect for ground and rooftop installation.

Conversion

HIGH EFFICIENCY

High module conversion efficiency up to 19.00%, 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 TUV NORD.

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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NST – Version 11/2017

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ENGINEERING DRAWINGS & TECHNICAL PARAMETERS

PHYSICAL PARAMETERS

Solar cell	Polycrystalline 156.75 x 156.75 mm
Cell configuration	72 cell (12 x 6)
Module dimension	1956 x 992 x 34 mm
Weight	24 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, 1500VDC, 3 bypass diodes
Cables	4.0 mm (12AWG), 1200 mm length (customer demand)
Connector	IP67 MC4 or its compatible

ELECTRICAL PARAMETERS (STC)

TYPE	NST72-6-320P	NST72-6-325P	NST72-6-330P	NST72-6-335P	NST72-6-340P
Rated maximum power at STC (Wp)	320	325	330	335	340
Open circuit voltage Voc (V)	46.4	46.7	46.9	47.07	47.29
Maximum power voltage Vmpp (V)	37.4	37.6	37.8	38.00	38.20
Short circuit current Isc (A)	9.15	9.22	9.29	9.36	9.43
Maximum power current Impp (A)	8.56	8.66	8.74	8.82	8.91
Module efficiency (%)	16.55	16.80	17.04	17.19	17.42

STC: Irradiance 1000W/m^2, module temperature 25^{o}C, air mass 1.5

ELECTRICAL PARAMETERS (NOCT)

TYPE	NST72-6-320P	NST72-6-325P	NST72-6-330P	NST72-6-335P	NST72-6-340P
Max power (Pmax) [W]	237	241	245	249	253
Open circuit voltage (Voc) [V]	43	43.3	43.6	43.9	44.2
Max power voltage (Vmp) [V]	34.7	35	35.3	35.6	35.9
Short circuit current (Isc) [A]	7.25	7.4	7.45	7.5	7.55
Max power current (Imp) [A]	6.83	6.89	6.94	6.99	7.04

NOCT: Under normal operating cell temperature, irradiance of 800 W/m2, spectrum AM 1.5, ambient temperature 20^{o}C, wind speed 1m/s

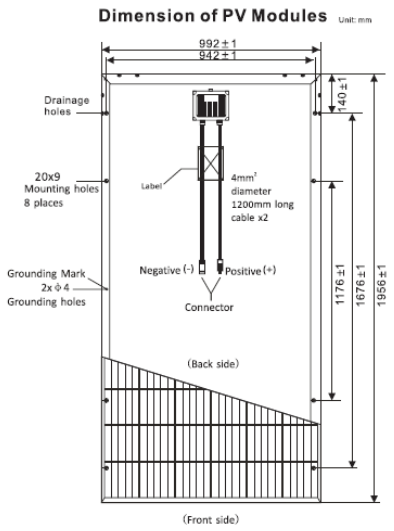
TEMPERATURE COEFFICIENT AND PARAMETERS

Nominal operating cell temperature (NOCT)	45^{o}C ± 2^{o}C
Temperature coefficient of Pmax	-0.385%/^{o}C
Temperature coefficient of Voc	-0.32%/^{o}C
Temperature coefficient of Isc	0.055%/^{o}C
Operating temperature	-45^{o}C~+85^{o}C
Maximum system voltage	1500V DC
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

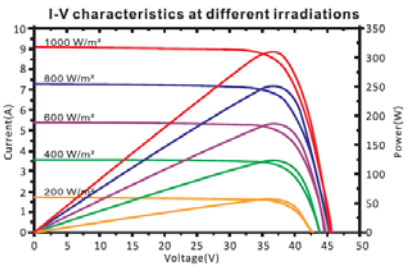
PACKAGING CONFIGURATION

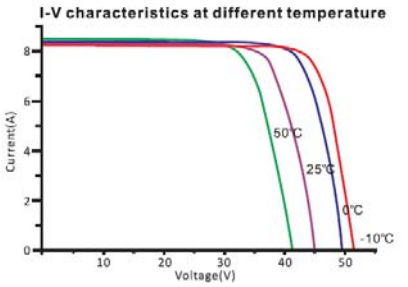
	40ft	20ft
Number of modules per container	720	300
Number of modules per pallet	30	30
Number of pallets per container	24	10
Box dimension (L x W x H) in mm	1956 x 1100 x 1250	1956 x 1100 x 1250
Box gross weight (Kg)	680	680

DIMENSION OF PV MODULE UNIT



I-V CURVE





AUTHORIZED PARTNER OF NST