

Modulo Policristallino NOOR Solar Technology

NST-HPP-260-280Wp/60-10-6

Caratteristiche tecniche

- 4 BUS BAR SOLAR CELL: 4 bus bar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.
- HIGH EFFICIENCY: High module conversion efficiency (up to 16.80%), 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: 10-years limited warranty for materials and workmanship. NST guarantees that each module shall deliver the following minimum output as shown in the datasheet for.



NST is a leading provider and manufacturer of smart renewable energy solutions with high performance and top quality standards. NST products are ideal to be used in large scale PV power plants, as well as in residential or industrial rooftop installations, ensuring investors and owners can enjoy long-term returns on their investment and savings on their electricity bill.

NST ADVANTAGE:

- » 17.5% maximum efficiency
- » Positive tolerance 0/+3%
- » Excellent PID resistance
- » Robust design
- » 1500VDC system voltage

Dati tecnici e modelli

PHYSICAL PARAMETERS

Solar cell	Polycrystalline 156.75 X 156.75 mm
Cell configuration	60 cell (10 x 6)
Module dimension	1650 x 992 x 35 mm
Weight	19 kg
Superstrate	3,2 mm, high transmission, low iron, tempered ARCglass
Substrate	White backsheet
Frame	Silver anodized aluminium alloy type 6063T5, silver color
J-Box	IP67, 1000VDC, 3 bypass diodes
Cables	4,0 mm (12AWG), 900 mm length (customer demand)
Connector	IP67 MC4compatible

ELECTRICAL PARAMETERS (STC)

TYPE	NSAP 260	NSAP 265	NSAP 270	NSAP 275	NSAP 280
Rated maximum power at STC (W)	260	265	270	275	280
Open circuit voltage (Voc/V)	38.1	38.6	38.8	39.2	39.6
Maximum power voltage (Vmp/V)	31.1	31.4	31.7	32	32.4
Short circuit current (Isc/A)	8.98	9.03	9.09	9.14	9.20
Maximum power current (Imp/A)	8.37	8.44	8.52	8.6	8.7
Module efficiency (%)	15.88	16.19	16.50	16.80	17.10

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

ELECTRICAL PARAMETERS (NOCT)

TYPE	NSAP 260	NSAP 265	NSAP 270	NSAP 275	NSAP 280
Max power (Pmax) [W]	193	197	200	204	207
Open circuit voltage (Voc) [V]	35.2	35.3	35.4	35.4	35.6
Max power voltage (Vmp) [V]	28.7	29	29.4	29.8	30.2
Short circuit current (Isc) [A]	7.31	7.36	7.38	7.42	7.46
Max power current (Imp) [A]	6.71	6.78	6.8	6.85	7.00

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

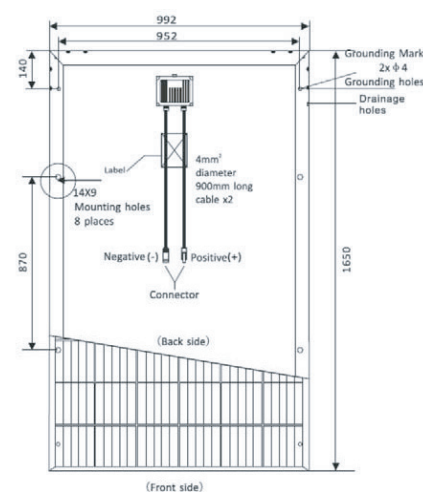
TEMPERATURE COEFFICIENT AND PARAMETERS

Nominal operating cell temperature (NOCT)	45°C± 2°C
Temperature coefficient of Pmax	-0.385%/°C
Temperature coefficient of Voc	-0.32%/°C
Temperature coefficient of Isc	0.055%/°C
Operating temperature	45°C~+85°C
Maximum system voltage	1500VDC
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 backload	2,400 Pa

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

DIMENSION OF PV MODULE UNIT



I-V CURVE

