

HIGH PERFORMANCE. MONO CRYSTALLINE MODULE.



NST60-6-280-300Wp-HPM-S-10.

COMMITMENT TO QUALITY, PRODUCTIVITY & SUSTAINABILITY



NST ADVANTAGE.

- » Up to 20.5% efficiency
- » Positive tolerance 0/+3%
- » Excellent PID resistance
- » Robust design
- » 1000VDC system voltage



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 or rooftop installation.



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 minimum output as shown in the datasheet.

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 PARAMETERS

| | |
|--------------------|--|
| Solar cell | Monocrystalline 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)

| TYPE | NST60-6-280M | NST60-6-285M | NST60-6-290M | NST60-6-295M | NST60-6-300M |
|---------------------------------|--------------|--------------|--------------|--------------|--------------|
| Rated maximum power at STC (Wp) | 280 | 285 | 290 | 295 | 300 |
| Open circuit voltage Voc (V) | 38.6 | 38.7 | 39.5 | 39.7 | 40.1 |
| Maximum power voltage Vmpp (V) | 31.8 | 32.0 | 32.2 | 32.4 | 32.6 |
| Short circuit current Isc (A) | 9.49 | 9.51 | 9.55 | 9.61 | 9.72 |
| Maximum power current Imp (A) | 8.81 | 8.90 | 9.02 | 9.10 | 9.21 |
| Module efficiency (%) | 17.11 | 17.41 | 17.72 | 18.02 | 18.33 |

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

ELECTRICAL PARAMETERS (NOCT)

| TYPE | NST60-6-280M | NST60-6-285M | NST60-6-290M | NST60-6-295M | NST60-6-300M |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|
| Max power Pmax (W) | 209 | 212 | 216 | 220 | 224 |
| Open circuit voltage Voc (V) | 36.2 | 36.4 | 36.6 | 36.8 | 37 |
| Max power voltage Vmp (V) | 29.7 | 29.9 | 30.2 | 30.4 | 30.6 |
| Short circuit current Isc (A) | 7.26 | 7.72 | 7.81 | 7.89 | 8.01 |
| Max power current Imp (A) | 7.01 | 7.12 | 7.15 | 7.24 | 7.32 |

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

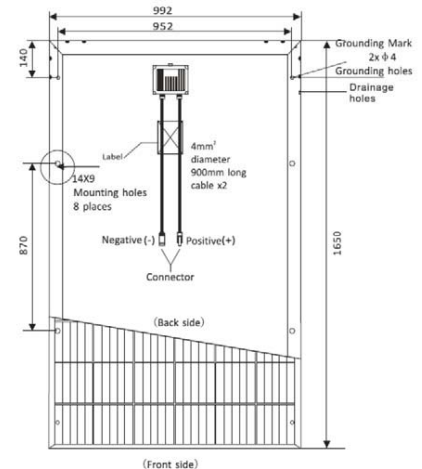
TEMPERATURE COEFFICIENT AND PARAMETERS

| | |
|---|----------------|
| Nominal operating cell temperature (NOCT) | 45°C ± 2°C |
| Temperature coefficient of Pmax | -0.39%/°C |
| Temperature coefficient of Voc | -0.32%/°C |
| Temperature coefficient of Isc | 0.055%/°C |
| Operating temperature | -45°C~+90°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 |

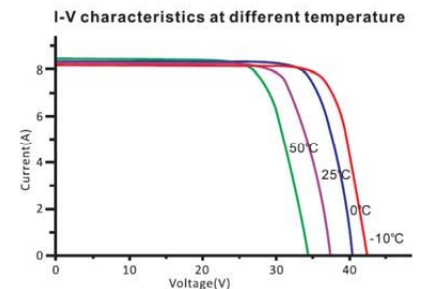
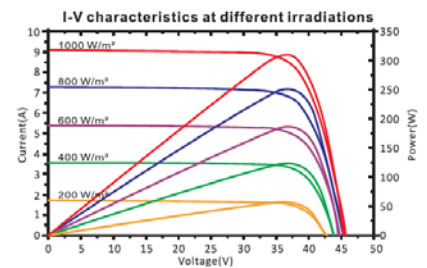
PACKAGING CONFIGURATION

| | 40ft | 20ft |
|---------------------------------|--------------------|--------------------|
| Number of modules per container | 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



AUTHORIZED PARTNER OF NST

