

NEOSOL BLUE SAPPHIRE SERIES



World class mono efficiency



High module conversion efficiency
Module efficiency up to 18.06% achieved.



Extended wind and snow load tests
Module certified to withstand extrem wind (2400 Pascal) and snow loads (5400 pascal).



Low irradiance
Outstanding low irradiance performance: 96.0%



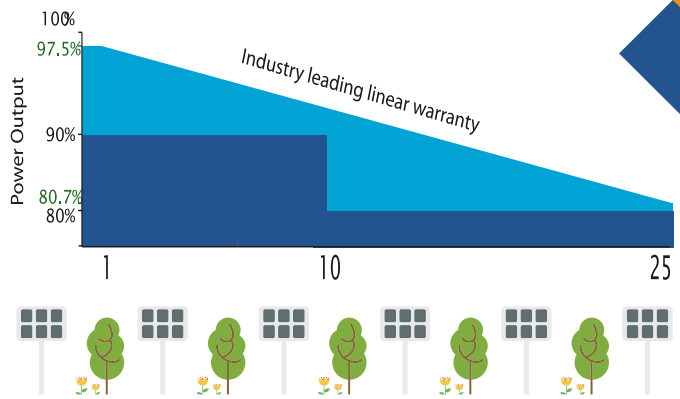
Postive Tolerance
Positive tolerance of up to 5W delivers higher output reliability



Withstanding harsh environment
Salt mist and amonia tests ensure better sustainability in harsh environment such as desert, farm a coastline



Neosol current sorting process
System output maximized by reducing mismatch losses with modules sorted and packaged by amperage.



Industry leading warranty based on Nominal Power

- 97.5% in the first year, thereafter, for years two (2) through twenty-five (25), 0.7% maximum decrease from module's nominal power output per year, ending with the 80.7% in the 25th year after the defined WARRANTY STARTING DATE.**
- 10 year product warranty
- 25 year linear performance warranty



High PID resistant
Advanced cell technology and qualified materials lead to high resistance to PID



IP67 Rated junction box
1P67 junction box for long-term weather endurance.



Rigorous testing criteria
100% EL inspection ensuring defect-free modules.



Good temperature coefficient
Enables higher output in high temperature regions



Solar Module Specification

Electrical Characteristics	NS 350 W	NS 345 W	NS 340 W	NS 335 W	NS 330 W
Maximum Power at STC (Pmax)	350 W	345 W	340 W	335 W	330 W
Optimum Operating Voltage (Vmp)	38.30 V	39.18 V	39.67 V	39.92V	39.09V
Optimum Operating Current (Imp)	9.14 A	8.83A	8.58 A	8.4 A	8.46 A
Open Circuit Voltage (Voc)	46.7V	45.89V	46.65 V	46.1 V	46.29 V
Short Circuit Current	9.58 A	9.19 A	9.05A	8.99A	8.95A
Module Efficiency	≥18.06%	≥17.80%	≥17.56%	≥17.30%	≥17.30%
Operating Module Temperature	-40 °C to +85°C				
Maximum System Voltage	1000 V DC (IEC)				
Maximum Series Fuse Rating	20A				
Power Tolerance	0/+5W				

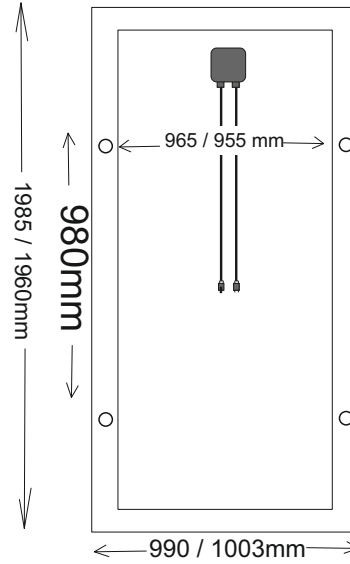
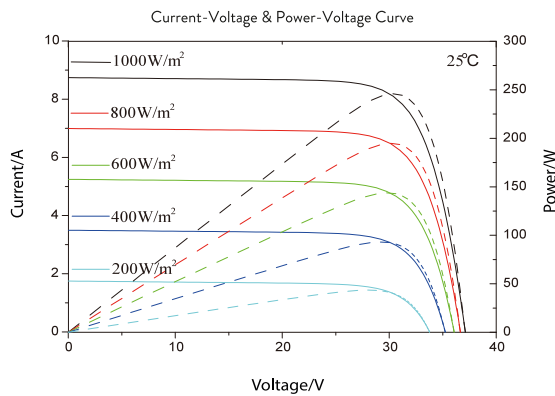
STC: Irradiance 1000 W/m², module temperature 25°C, Am=1.5;

NOCT	NS350-72M	NS345-72M	NS340-72M	NS325-72M
Maximum Power at NOCT (Pmax)	258 W	254 W	250 W	246 W
Optimum Operating Voltage (Vmp)	35.92 V	35.70 V	35.50 V	35.20 V
Optimum Operating Current (Imp)	7.18 A	7.12 A	7.05 A	6.97 A
Open Circuit Voltage (Voc)	43.60 V	43.40 V	43.20 V	43.00 V
Short Circuit Current (ISC)	7.73 A	7.66 A	7.59 A	7.52 A

NOCT: Irradiance 800 W/m², ambient temperature 20°C, Am=1.5, Wind speed 1 m/s;

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.423%/K
Temperature Coefficient of Voc	-0.307%/K
Temperature Coefficient of Isc	+0.039%/K



Module | Mechanical Data

Specification	Data
Cell Type	Poly-crystalline, 72 Cells (6x12)
Dimensions	1960x990 / 1985x1003
Weight	21.5 Kgs
Front Cover	3.2 mm Tempered Glass
Cell Encapsulation	Composite Film
Backsheet	EVA
Frame Material	Silver Anodized Aluminium Profile, (black frame on request)
J-Box	Ip68, 3 diodes
Cable	1.2 Meters, 4mm ² MC4 Compatible Connector
Connectors	IEC/UL Certified

- Optimum panel efficiency suitable for roof-tops, ground mounted, solar water pumping for utility applications.
- Suitable for all environment conditions.

Excellent performance under weak light conditions: at an irradiation intensity of 200 W/m² (AM 1.5, 25 °C), 96.0% or higher of the STC efficiency (1000 W/m²) is achieved

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

