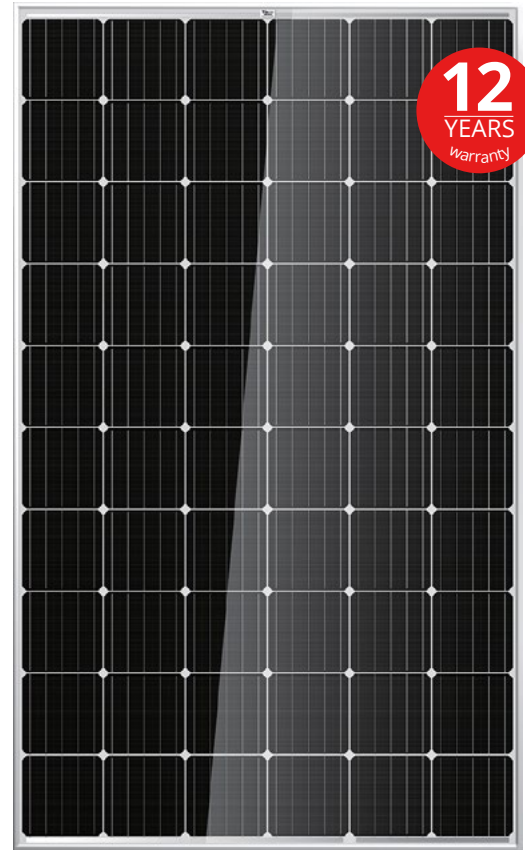


MONOCRYSTALLINE SOLAR PV MODULES

NEOSUN NS-275M | 285M | 290M

This Monocrystalline Solar PV Module with 5BB A-Grade cells offers the highest cell performance efficiency of up to 20.2% (17.8% module efficiency) and an excellent aesthetic appearance, making it perfect for rooftop installation where good design is important.

With its long service life and low cost these solar panels are great choice either for big solar power plant or for small house.



20.2%

EXCELLENT CELLS EFFICIENCY

We use only 5BB Grade-A Cells with efficiency up to 20.2% achieved through advanced cell manufacturing technology



Weak Sunlight

EXCELLENT WEAK LIGHT PERFORMANCE

Solar modules from NEOSUN Energy have excellent weak light performance (morning, evening and cloudy days)

+8W

POSITIVE POWER TOLERANCE

Guarantee from 0 to +8W as power tolerance, you can obtain more power than conventional output



SAND AND SALT PROTECTION

Reliable quality leads to a better sustainability even in harsh environment like desert or coastline

35mm



Ultrathin

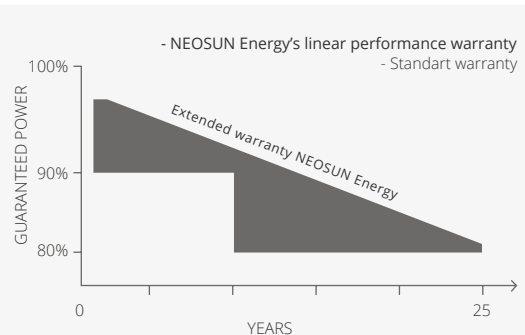
PANEL THICKNESS

The latest technologies allow us to make thin and light solar modules. Easy installation and transportation



HIGH WIND AND SNOW RESISTANCE

NEOSUN Energy modules withstand snow load of up to 550 kg/m² and wind speed of up to 162km/h



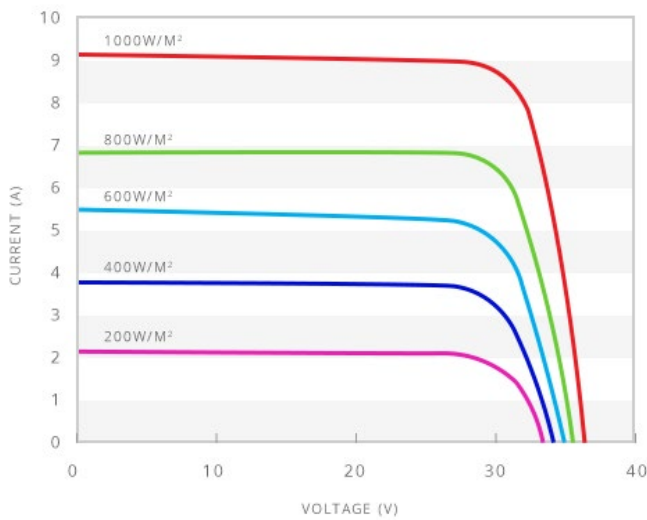
For a period of twenty-five (25) years commencing on the Warranty Start Date, loss of power output of the nominal power output measured at Standard Test Conditions (ST C) for the Product(s) shall not exceed:

1. For Polycrystalline Products: 2% in the first year, thereafter 0.67% per year, ending with 82% in the 25th year after the Warranty Start Date.
2. For Monocrystalline Products: 3% in the first year, thereafter 0.67% per year, ending with 81% in the 25th year after the Warranty Start Date.

The Warranty Start Date shall be defined as the date of the Bill of Lading date

I-V curves

I-V Curves of PV module NEOSUN 275W at different light power

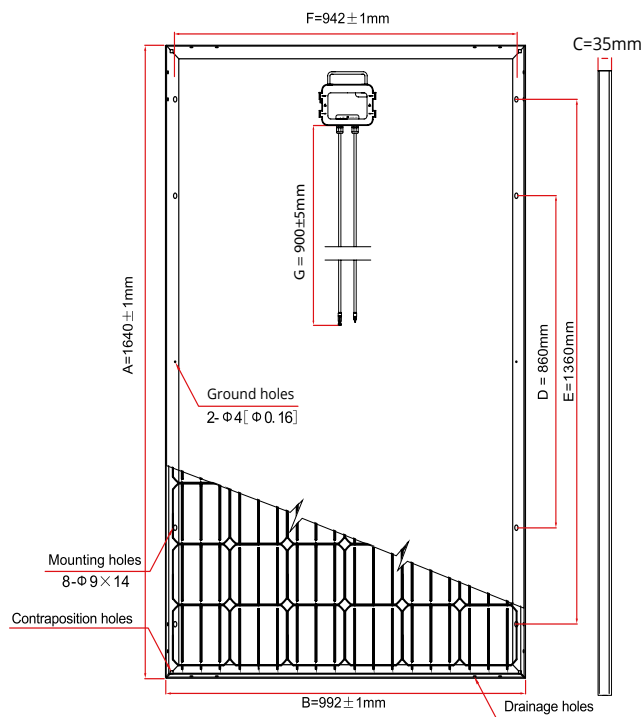


Electrical characteristics

Solar cells:	Mono-crystalline 5BB, 6 inch, 6x10 pcs		
Max Power	275W	285W	290W
Power Tolerance	0 to +8W		
Voltage at Pmax (Vmp)	31.2V	31.7V	32.0V
Current at Pmax (Imp)	8.82A	9.00A	9.08A
Open-Circuit Voltage (Voc)	38.9V	39.6V	39.9V
Short-Circuit Current (Isc)	9.34A	9.41A	9.45A
Module Efficiency	16.9%	17.5%	17.8%
Max-System Voltage (VDC)	1000V(IEC), 600V(UL)		
No. of Bypass Diodes (pcs.)	3		
Max Series Fuse (A)	15A		
Temperature Coefficient of Pmax	-0.40% / °C		
Temperature Coefficient of Voc	-0.30% / °C		
Temperature Coefficient of Isc	0.06% / °C		
Nominal Operating Cell t°C	45 ± 2°C		

*STC Conditions (1000W/m2; 1.5 AM and 25°C Cell temperature)

Dimensions



Mechanical Characteristics

Cable type, Diameter and Length	Φ =4mm ² , L=900±5mm
Type of Connector	Compatible type MC4
Dimension AxBxC	1640x992x35mm
Weight	17.6 kg
Front Glass	Tempered with AR coating
Junction Box (protection degree)	IP67 Rated
Frame	Clear anodized aluminum alloy

Qualification Test Parameters

Dielectric Insulation Voltage	6000VDC max
Operating Temperature	-40°C to +85°C
Max load	5400Pa
Hailstone impact	25mm at 23m/s
Fire safety class	Class C

Packaging Configuration

Container	20'GP	40'HQ
Pieces per pallet	60	66
Pallets per container	6	14
Pieces per container	360	924



Caution: read safety and installation instructions before using this product