



Navisol Series

72 Cell Module

Multi Crystalline Module

NS 290P-315P | 290~315 Watt

Navitas Solar's Modules are best in class in terms of Performance and Reliability.

Our meticulous product design and stringent quality control ensures our modules deliver an exceptionally high PV yield.

Excellent Module Efficiency

Up to 16.25%

Positive Power Tolerance

Up to 4.99W

10 Years

Product Warranty

25 Years

Performance Warranty

PID Resistant



Ideal for Large Scale and Roof Top Installations



Highly Reliable Due to Stringent Quality Control

- 100% EL Tested Before and After Lamination
- Over 30 In-house Tests



High Durability Ensured

- Durable PV Modules, Independently Tested for Harsh Environment Conditions Such as Exposure to Salt Mist, Ammonia and Known PID Risk Factors

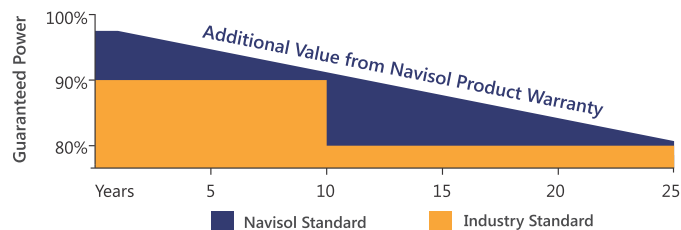


Advanced Glass Efficiency

- High Transmission Glass with Unique Anti reflective Coating that directs more light on Solar Cells

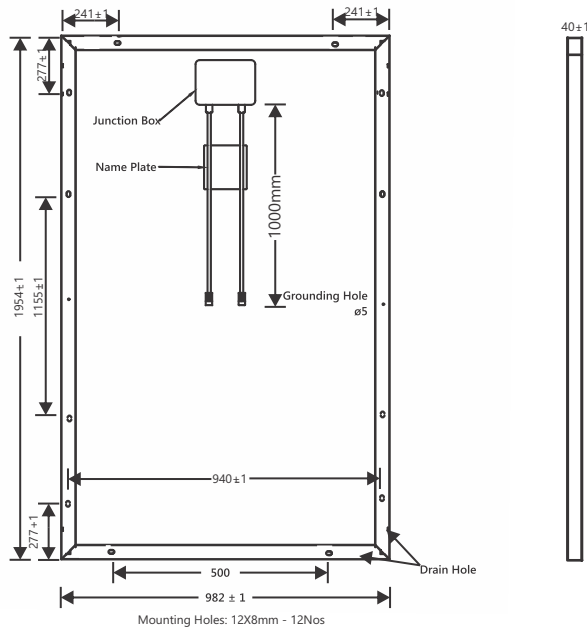
Navisol Performance Warranty

10 Years Product Warranty - 25 Years Linear Power Warranty

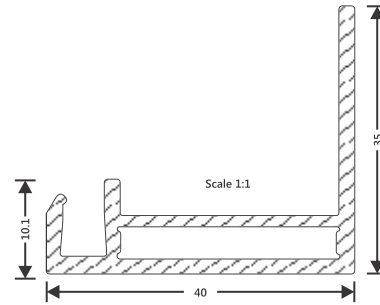
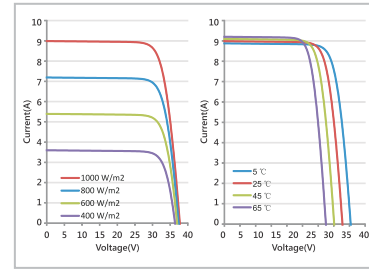


Certifications

IEC 61215, IEC 61730-1 & 2, IEC 62804,
IEC 61701, Fire Rating
ISO 9001, 14001, 18001



I-V Curves of PV Module



ELECTRICAL DATA

Module Type	NS290		NS295		NS300		NS305		NS310		NS315	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts (Pmax)	290	214.36	295	218	300	221	305	225.45	310	229.15	315	232.8
Maximum Power Voltage (Vmp)	35.9	33.1	36.0	33.28	36.1	33.3	36.3	33.54	36.4	33.65	36.5	33.7
Maximum Power Current (Imp)	8.08	6.46	8.19	6.55	8.3	6.64	8.41	6.72	8.52	6.81	8.64	6.91
Open-circuit Voltage (Voc)	44.4	40.96	44.5	41.18	44.6	41.21	44.8	41.52	44.9	41.64	45.0	41.7
Short-circuit Current (Isc) (A)	8.64	6.91	8.75	7.0	8.87	7.10	8.97	7.18	9.08	7.29	9.1	7.4
Module Efficiency STC (%)	15.1		15.35		15.6		15.9		16.1		16.25	
Operating Temperature (°C)	-40°C~+85°C											
Maximum system Voltage	1000V DC (IEC)											
Maximum series fuse rating	15A											

Temperature Characteristics

Specification	Data
Temperature Co-efficient (Pmax)	- 0.38%
Temperature Co-efficient (Voc)	- 0.34%
Temperature Co-efficient (Isc)	+ 0.053%
Nominal Operating Cell Temperature	45 ± 2°C

Mechanical Data

Specification	Data
Cell Type	Multicrystalline 6inch
Cell Arrangement	72 (6 x 12)
Dimensions	1954 x 982 x 40mm (76.93 x 38.7 x 1.57inch)
Weight	22Kgs (48.5 Lbs)
Front Cover	3.2mm ARC Glass
Frame Material	Anodized Aluminum Alloy
Junction Box	IP 65 or IP 67
Cable	4mm ² (IEC) / 4mm ² & 12 AWG 1000V (1000V UL) 1000mm
Connectors	MC4 Comparable
By-Pass Diodes	3 Pcs
Standard Packaging	26 Pcs, 638 Kg (Quantity & Weight per Pallet)
Module Pieces Per Container	572 Pcs (40 feet HQ)

STC



Irradiance 1000W/m²



Cell Temperature 25°C



AM = 1.5

NOCT



Irradiance 800W/m²



Cell Temperature 20°C



AM = 1.5



1 m/s