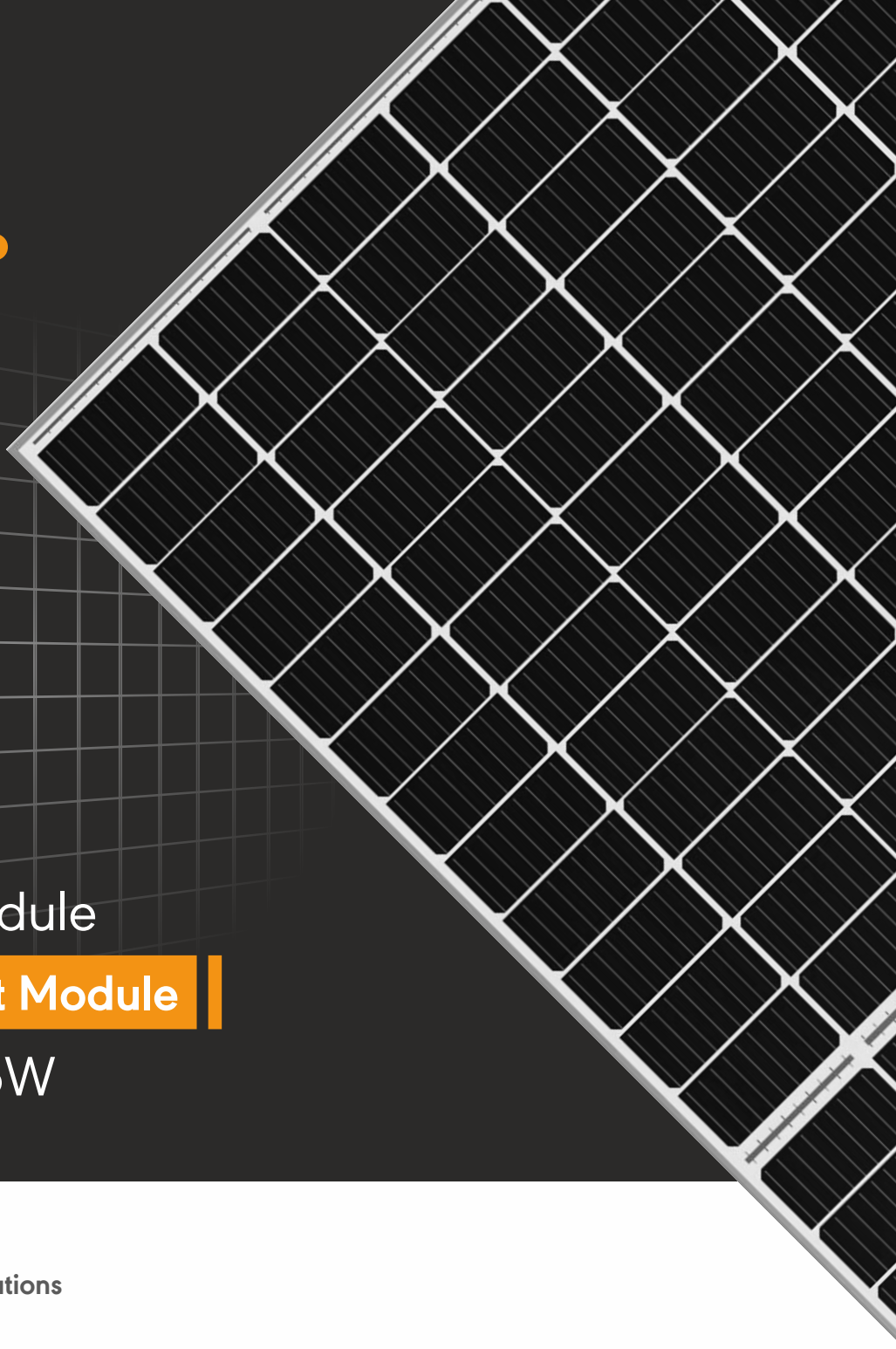


navitas bonito_{pro}



144 Cell | 9 BB Module

Mono PERC Half Cut Module

NSM 435W to 465W



Ideal for large scale installations



High power



Better shading tolerance



Lower LCOE & system cost



Excellent temperature performance



Non-destructive cutting

ALMM
Approved
List by
MNRE*

Module
Efficiency
up to
21.47%

Power
Tolerance
up to
4.99W

25 Years
Performance
Warranty¹

10 Years
Product
Warranty¹

PID
Resistant

Product Certifications

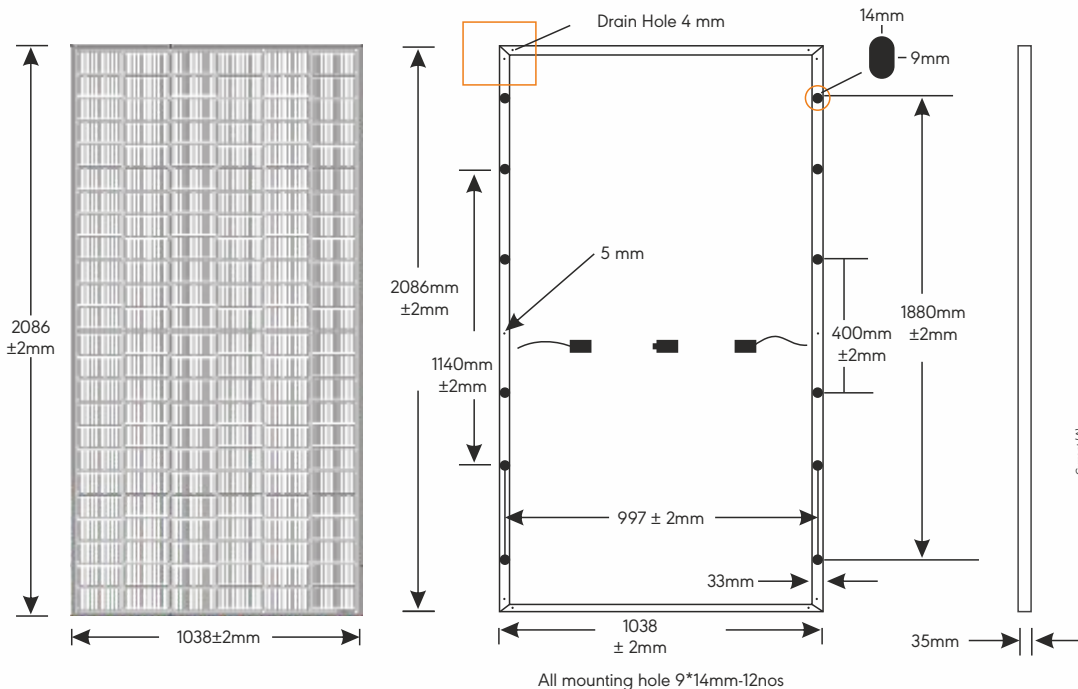
IS 14286*, IS 61730-1 & 2*, IS 62804* IEC 61701*,
Fire Rating *BIS* ISO 9001, 14001, 45001

¹In Process

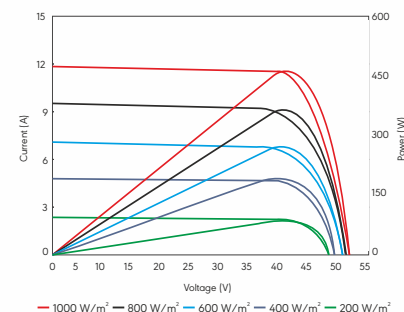
Mechanical Dimensions



navitasolar
conserve | sustain | flourish



I-V Curves of PV Module (for Ref)



Electrical Data

Module Type	NSM435 - 144		NSM440- 144		NSM445 - 144		NSM450 - 144		NSM455 - 144		NSM460 - 144		NSM465 - 144	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts (Pmax)	435	323.29	440	327.49	445	331.12	450	334.74	455	338.37	460	342.03	465	345.70
Maximum Power Voltage (Vmp)	41.26	38.74	41.56	39.02	41.81	39.25	42.07	39.50	42.33	39.74	42.59	39.99	42.86	40.23
Maximum Power Current (Imp)	10.54	8.35	10.60	8.39	10.65	8.44	10.70	8.48	10.75	8.51	10.80	8.55	10.85	8.59
Open-circuit voltage (Voc)	48.02	45.08	48.43	45.47	48.79	45.81	49.44	46.15	49.62	46.49	49.89	46.84	50.26	47.18
Short-circuit current (Isc) (A)	11.39	9.06	11.40	9.07	11.41	9.07	11.43	9.08	11.46	9.08	11.48	9.09	11.50	9.09
Module Efficiency STC (%)	20.08		20.32		20.55		20.78		21.01		21.24		21.47	
Operating Temperature (°C)	-40°C ~ +85°C													
Maximum System Voltage	1500 V DC (IEC)													
Maximum series fuse rating	20A													

- ▶ **STC** ☀ Irradiance 1000 W/m² 🌡 Cell Temperature 25°C ☁ AM = 1.5
- ▶ **NOCT** ☀ Irradiance 800 W/m² 🌡 Ambient Temperature 20°C ☁ AM = 1.5 🌬 Wind Speed = 1 m/s

Mechanical Data

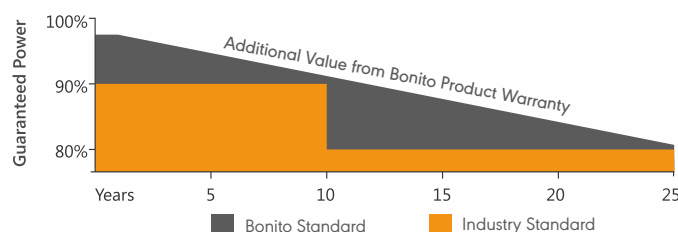
Specification	Data
Cell Type	Half cut Mono PERC
Cell Arrangement	72 Mono PERC - 144 Half Cells
Dimensions	2086x1038x35 mm
Weight	25 kg
Front Cover	3.2 mm ARC Glass
Frame Material	Anodized Aluminium Alloy
Junction Box	IP68 Split JB
Cable	4 mm ² (IEC) - Length 0.35 mtr (Portrait)/ 1.4mtr(Landscape)
Connectors	MC4 Compatible
By-Pass Diodes	3 Pcs

Temperature Characteristic

Specification	Data
Temperature Co-efficient (Pmax)	-0.36% /°C
Temperature Co-efficient (Voc)	-0.36% /°C
Temperature Co-efficient (Isc)	+0.06% /°C
Nominal Operating Cell Temperature	42 ± 2°C

Navitas Bonito Performance Warranty

10 Years Product Warranty - 25 Years Linear Power Warranty



Increased Shade Tolerance

HALF-CELL MODULE

Functions like two parallel modules, enabling the **half-cell** string to work in partial shading



* The above data is liable to change without prior notice
 † Warranty applicable as per standard warranty terms as available on www.navitassolar.com