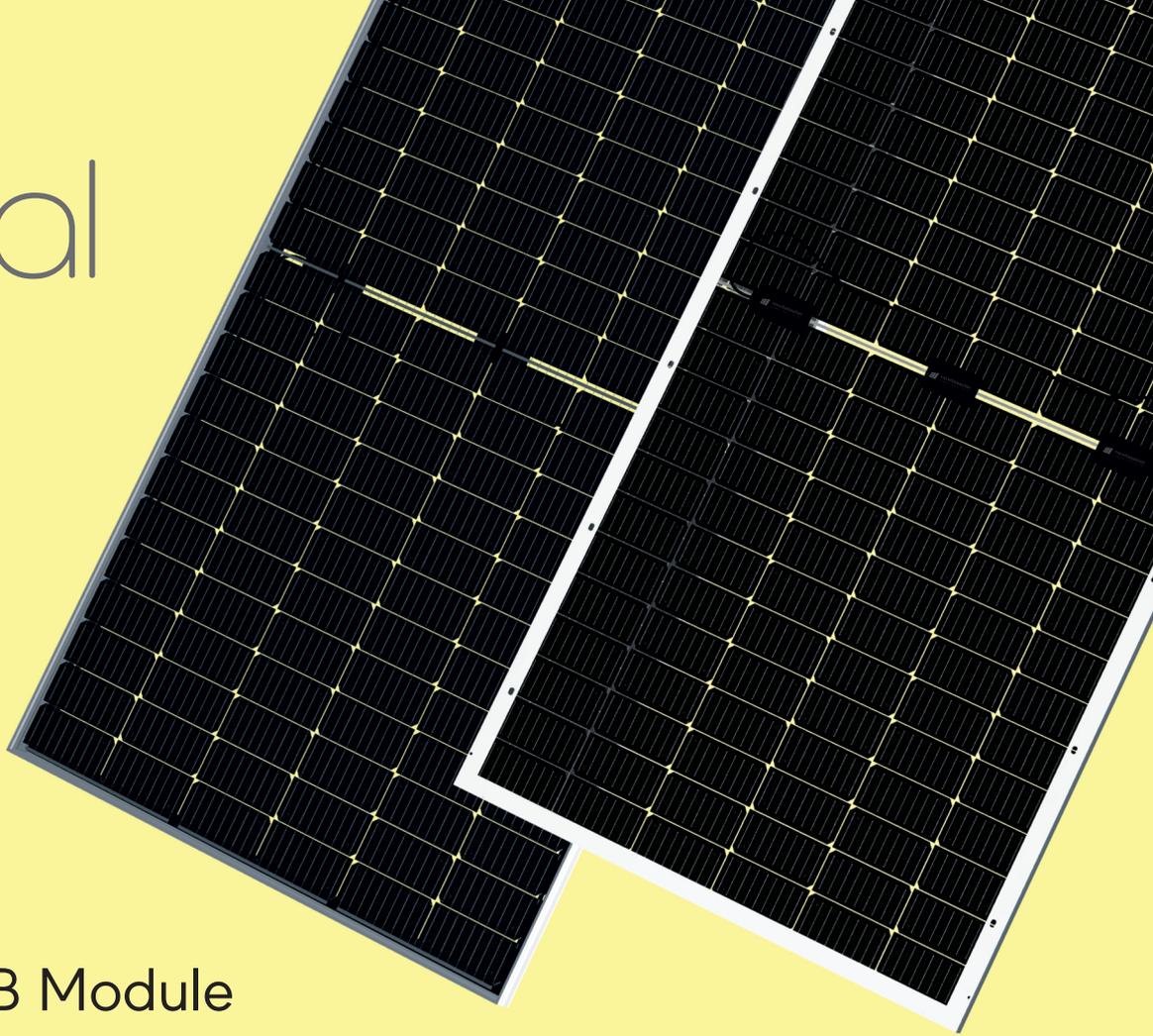


navitas bifacial



108 Cell | 10 BB Module

**Mono PERC Half Cut
BIFACIAL Module**

NSM 390W to 410W



Ideal for large scale installations



More power with Bifacial



Better shading tolerance



Lower LCOE & system cost



Excellent temperature performance



Non-destructive cutting

Navitas Bifacial modules produce power from the front & backside. Navitas Bifacial modules can produce up to 30% more power from the backside than mono-facial modules.

Module
Efficiency
up to
20.98%

Power
Tolerance
up to
4.99W

25 Years
Performance
Warranty¹

12 Years
Product
Warranty¹

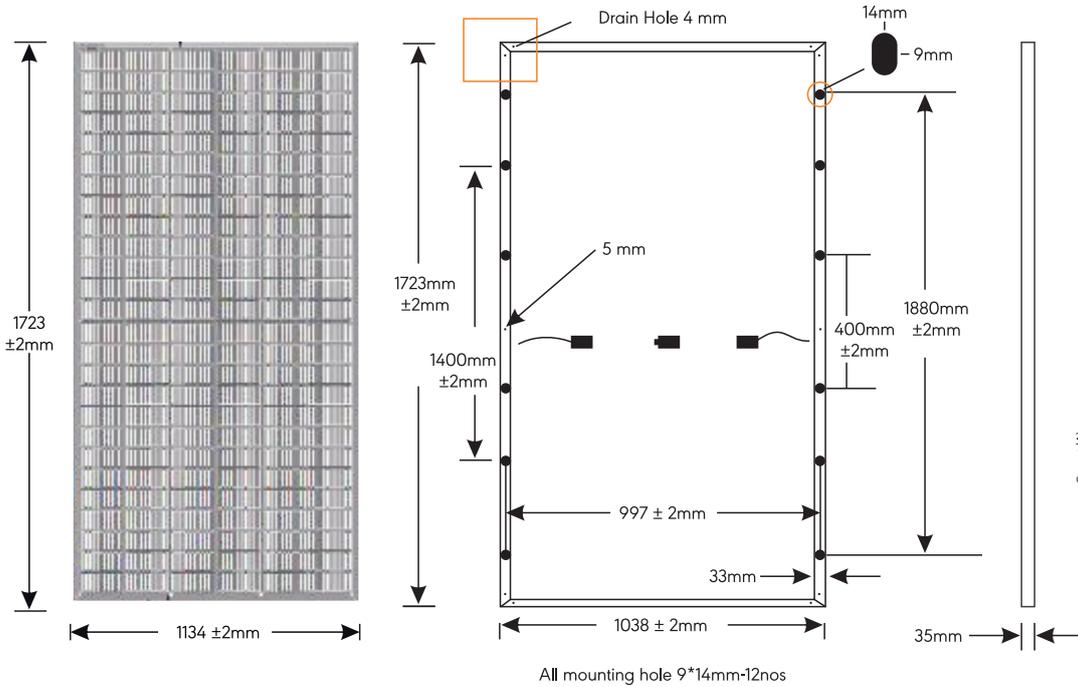
PID
Resistant

Product Certifications

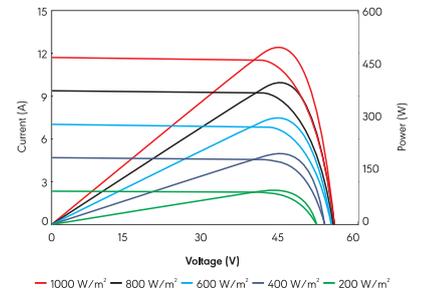
IS 14286*, IS 61730-1 & 2*, IS 62804* IEC 61701*,
Fire Rating *BIS* ISO 9001, 14001, 45001

¹In Process

Mechanical Dimensions



I-V Curves of PV Module (for Ref)



Electrical Data

Module Type	NSM390-108		NSM395-108		NSM400-108		NSM405-108		NSM410-108	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts (Pmax)	390	293.13	395	294.35	400	298.35	405	301.04	410	304.93
Maximum Power Voltage (Vmp)	31.15	29.25	31.23	29.33	31.48	29.56	31.64	29.71	31.8	29.86
Maximum Power Current (Imp)	12.64	10.02	12.66	10.04	12.73	10.09	12.78	10.13	12.88	10.21
Open-circuit voltage (Voc)	36.56	34.33	36.62	34.39	36.79	34.55	36.9	34.65	37.03	34.77
Short-circuit current (Isc) (A)	13.29	10.73	13.31	10.74	13.37	10.79	13.41	10.82	13.49	10.89
Module Efficiency STC (%)	19.96		20.21		20.47		20.72		20.98	
Operating Temperature (°C)	-40°C ~ +85°C									
Maximum System Voltage	1500 V DC (IEC)									
Maximum series fuse rating	15A									

Bifacial Output - Backside Power Gain

Module Type	NSM390-108	NSM395-108	NSM400-108	NSM405-108	NSM410-108
10 % Gain	429.0	434.5	440.0	445.5	451.0
15 % Gain	448.5	454.3	460.0	465.8	471.5
20 % Gain	468.0	474.0	480.0	486.0	492.0
25 % Gain	487.5	493.8	500.0	506.3	512.5

- ▶ **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	54 Mono PERC - 108 Half cells
Dimensions	1723*1134*35 MM
Mounting Hole	1400*400/1093
Weight	22.0 kg
Front Cover	3.2 mm ARC Glass
Frame Material	Anodized Aluminium Alloy
Junction Box	IP68 Split JB
cable	4 mm2 (IEC) - Length 0.35 mtr (Potrait)/1.4mtr (Landscape)
Connectors	MC4 Compatible
By-Pass Diodes	3 Pcs
Backsheet	Transparent

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

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

How a Bifacial Solar Panel Works

