

# Navitas N-type TOPCon



16 bb bifacial  
cell technology

132 Cells | 16 BB Module

## N-Type TOPCon Half Cut Bifacial Modules

### 680W to 710W



**Extra Power**



**Extra Life**



**Double-Sided Power Generation**



**Excellent anti-LeTID &  
anti-PID performance**



**Lower temperature coefficient**



**Lower LCOE & system cost**

N-type Navitas TOPCon Bifacial Modules have the best efficiency >22% with higher power generation and reliable characteristic resistance. These panels provide efficient production under extreme weather conditions along with bifaciality with lower degradation. N-type Navitas TOPCon Bifacial Modules generate significantly more power per watt (kWh/kW) over 30 years (Long life) of use compared to PERC panels.

**Module  
Efficiency  
>22%**

**Power  
Tolerance  
up to  
4.99W**

**25 Years  
Performance  
Warranty<sup>1</sup>**

**10 Years  
Product  
Warranty<sup>1</sup>**

**PID  
Resistant**

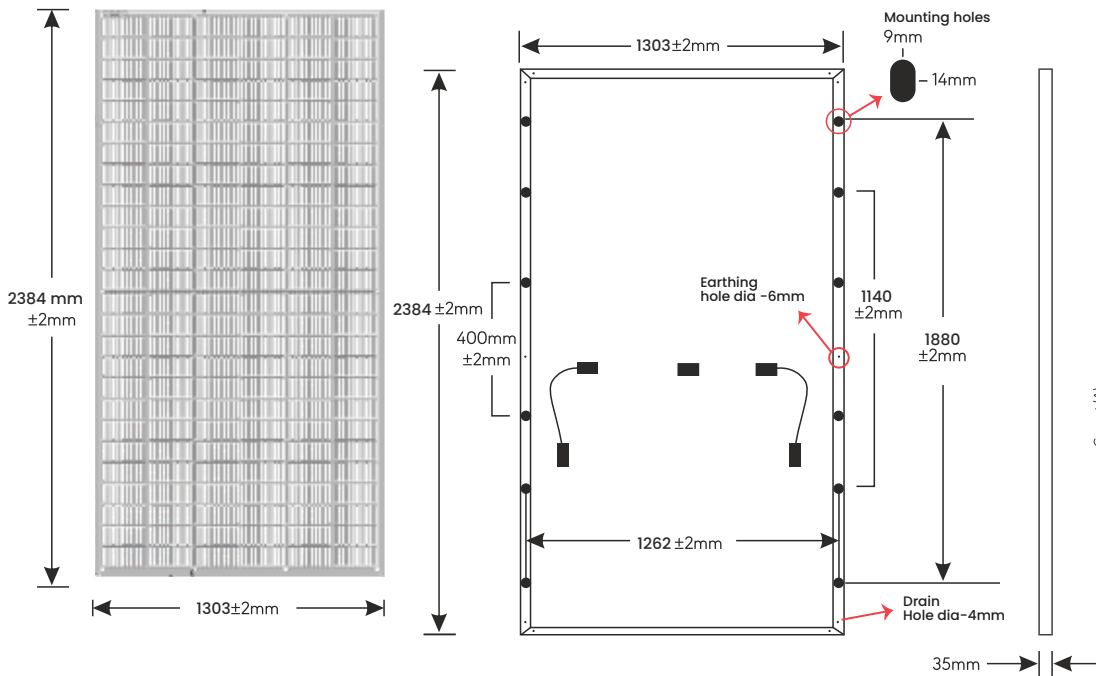
**Outstanding  
Aesthetic  
Design**

# Mechanical Dimensions

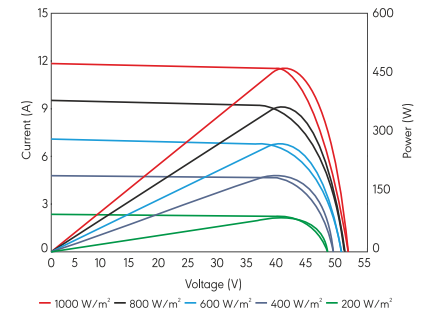


navitasolar  
conserve | sustain | flourish

710w/695w/680w MODULE DRAWING



I-V Curves of PV Module (for Ref)



## Electrical Data

Module Type	680	695	710
	STC	STC	STC
Peak Power Watts (Pmax)	680	695	710
Maximum Power Voltage (Vmp)	40.13	40.66	41.12
Maximum Power Current (Imp)	16.95	17.11	17.28
Open-circuit voltage (Voc)	46.46	46.86	47.32
Short-circuit current (Isc) (A)	17.80	18.00	18.25
Module Efficiency STC (%)	>22%	>22%	>22%
Operating Temperature (°C)	-40°C ~+85°C		
Maximum System Voltage	1500 V DC (IEC)		
Maximum series fuse rating	20A		

- ▶ **STC** Irradiance 1000 W/m<sup>2</sup> Cell Temperature 25°C AM = 1.5
- ▶ **NOCT** Irradiance 800 W/m<sup>2</sup> Ambient Temperature 20°C AM = 1.5 Wind Speed = 1 m/s

## Mechanical Data

Specification	Data
Cell Type	Half cut TOPcon
Cell Arrangement	66 N-type TOPcon - 132 Half Cells
Dimensions	2384x1303x35 mm
Weight	Glass to Transparent Backsheet- 33.2 Kg, Glass to Glass- 38.5 Kg
Front Cover	3.2 mm ARC Glass in Transparent Backsheet / 2 mm in Glass to Glass
Frame Material	<b>Anodized Aluminum Alloy</b>
Junction Box	IP68 Split JB
Cable	4 mm <sup>2</sup> (IEC) - Length 0.35 mtr (Portrait)/ 1.4 mtr (Landscape)
Connectors	MC4 Compatible
By-Pass Diodes	3 Pcs
Back sheet	<b>Transparent/Glass to Glass</b>

## Temperature Characteristic

Specification	Data
Temperature Co-efficient (Pmax)	-0.34% /°C
Temperature Co-efficient (Voc)	-0.26% /°C
Temperature Co-efficient (Isc)	+0.040% /°C
Nominal Operating Cell Temperature	42 ± 2°C

## 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.navitasolar.com](http://www.navitasolar.com)