

# Navitas N-type TOPCon



16 bb bifacial  
cell technology

156 Cells | 16 BB Module

**N-Type TOPCon Half  
Cut Bifacial Modules**

**590W to 630W**



**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**

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

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

**PID  
Resistant**

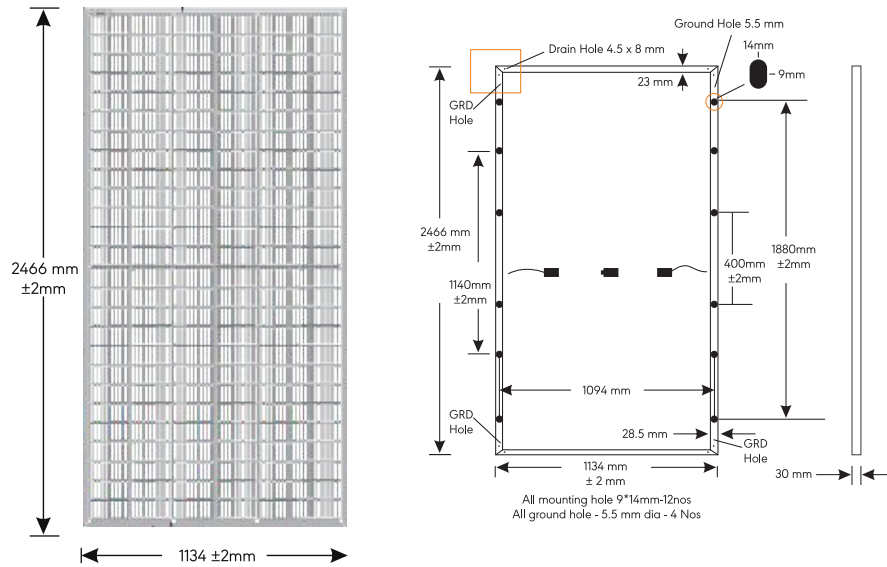
**Outstanding  
Aesthetic  
Design**

# 590W to 630W

156 Cell | 16 BB Module



navitasolar  
conserve | sustain | flourish



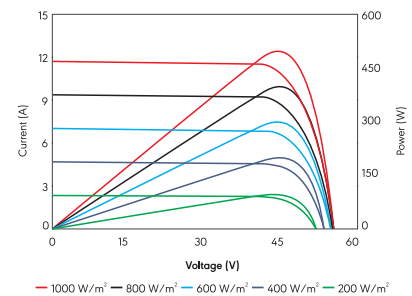
Module Type	NSM590-156	NSM595-156	NSM600-156	NSM605-156	NSM610-156	NSM615-156	NSM620-156	NSM625-156	NSM630-156
Peak Power Watts (Pmax)	590	595	600	605	610	615	620	625	630
Maximum Power Voltage (Vmp)	46.43	46.56	46.68	46.80	46.92	47.05	47.21	47.31	47.43
Maximum Power Current (Imp)	12.71	12.78	12.855	12.931	13.006	13.08	13.14	13.23	13.3
Open-circuit voltage (Voc)	54.21	54.32	54.44	54.63	54.78	54.93	55.1	55.19	55.31
Short-circuit current (Isc) (A)	13.26	13.35	13.43	13.5	13.58	13.64	13.72	13.79	13.86
Module Efficiency STC (%)	21.13%	21.30%	21.48%	21.67%	21.85%	22.03%	22.21%	22.41%	22.59%
Operating Temp C	-40 C +85 C								
Maximum System Voltage	1500 V DC (IEC)								
Maximum series fuse rating	25 A								

## MECHANICAL SPECIFICATIONS

Cell Type	Half cut TOPcon
External Dimension (L×W×H)	2466*1134*30 mm
Weight	Glass to Transparent Backsheet- 33.2 Kg, Glass to Glass- 38.5 Kg
Cell Arrangement	78 N-type TOPcon - 156 Half Cell
Front Cover	2 mm in Glass to Glass
Back Side	Transparent/Glass to Glass
Frame Material	Anodized Aluminium Alloy
Junction Box	IP68 Split JB
Output Cables	4 mm <sup>2</sup> (IEC) - Length 0.35 mtr (Portrait)/1.4mtr (Landscape)
Connector	MC4 Compatible
By-Pass Diodes	3 Pcs

## I-V CURVE

I-V Curves of PV Module (for Ref)



## APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Operating Temperature	-40°C ~ +85°C
Mechanical Load	5400Pa/2400Pa
Hail Test	25mm diameter hail at 23m/s
Bifaciality	80±5%
Application Rating	Class A

## TEMP CHARACTERISTICS

NTemperature Co-efficient(Pmax)	42±2°C
Temperature Co-efficient(Voc)	-0.29%/°C
Temperature Co-efficient(Isc)	-0.25%/°C
Nominal Operating Cell Temperature	0.045%/°C

<sup>1</sup>Warranty applicable as per standard warranty terms as available on [www.navitasolar.com](http://www.navitasolar.com)