

navitas bonito_{max}

144 Cell I 10 BB Module

Mono PERC Half Cut Module

NSM 525W to 560W



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
21.67%

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

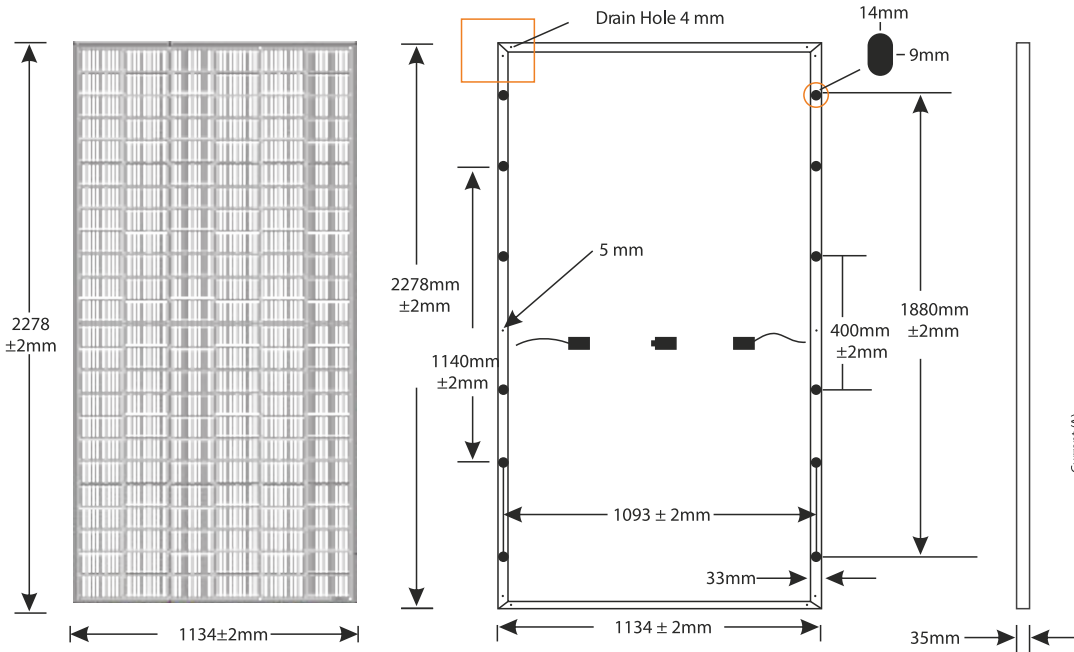


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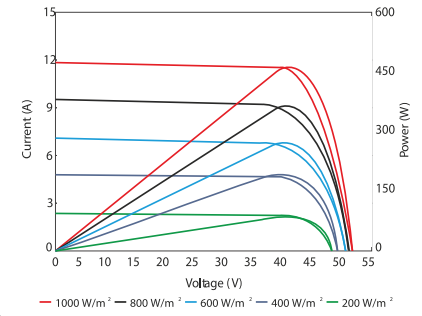
Mechanical Dimensions



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I-V Curves of PV Module (for Ref)



Electrical Data

Module Type	NSM525 - 144		NSM530 - 144		NSM535 - 144		NSM540 - 144		NSM545 - 144		NSM550 - 144		NSM555 - 144		NSM560 - 144	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts (Pmax)	525	390.46	530	393.99	535	397.67	540	401.28	545	405.17	550	408.80	555	412.53	560	416.29
Maximum Power Voltage (Vmp)	41.54	39.00	41.76	39.20	41.99	39.42	42.21	39.63	42.46	39.86	42.68	40.07	42.91	40.28	43.14	40.50
Maximum Power Current (Imp)	12.64	10.01	12.69	10.05	12.74	10.09	12.79	10.13	12.84	10.16	12.88	10.20	12.93	10.24	12.98	10.28
Open-circuit voltage (Voc)	49.80	45.77	49.94	45.92	50.0	46.06	50.16	46.20	50.3	46.35	50.49	46.51	50.62	46.66	50.75	46.81
Short-circuit current (Isc) (A)	13.45	10.74	13.5	10.77	13.56	10.81	13.60	10.84	13.65	10.88	13.69	10.91	13.74	10.94	13.78	10.98
Module Efficiency STC (%)	20.32		20.51		20.71		20.90		21.09		21.29		21.48		21.67	
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

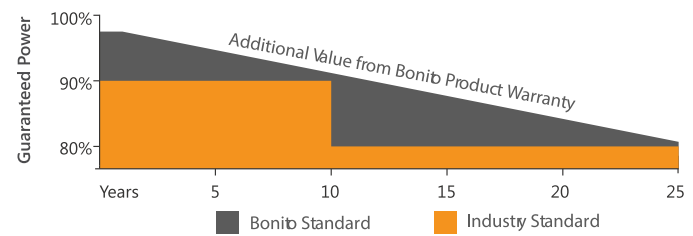
Specification	Data
Cell Type	Half cut Mono PERC
Cell Arrangement	72 Mono PERC - 144 Half Cells
Dimensions	2278x1134x35 mm
Weight	29 Kg.
Front Cover	3.2 mm ARC Glass
Frame Material	Anodized Aluminium Alloy
Junction Box	IP68 Split JB
Cable	4 mm ² (IEC) - Length 0.35 mtr (Rtrait)/ 1.4mtr(Landscape)
Connectors	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.navitasolar.com