navitas
bonito max

MONO DCR

144 Cell I 10 BB Module

Mono PERC Half Cut Module

NSM 525W to 535W

- 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 Warranty[1]

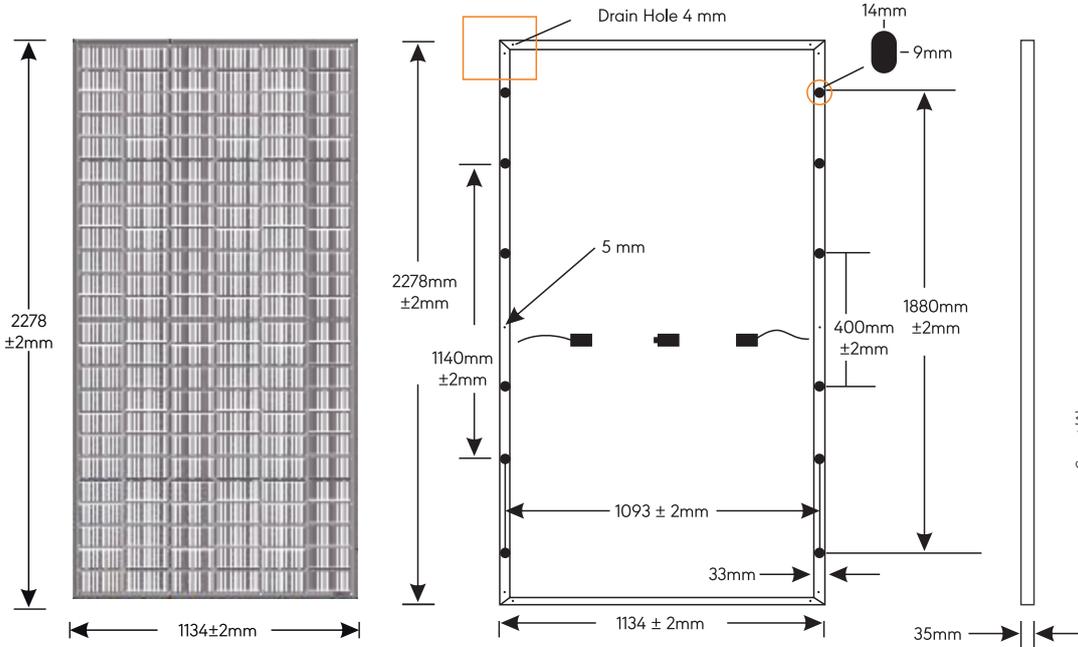10 Years Product Warranty[1]

PID Resistant

Product Certifications

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

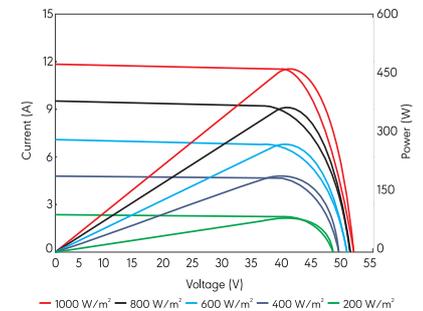*In Process

Mechanical Dimensions

Drain Hole 4 mm

14mm
9mm

2278mm ±2mm

2278 ±2mm

1140mm ±2mm

5 mm

1880mm ±2mm

400mm ±2mm

1093 ± 2mm

33mm

1134±2mm

1134 ± 2mm

35mm

All mounting hole 9*14mm-12nos

I-V Curves of PV Module (for Ref)

— 1000 W/m² — 800 W/m² — 600 W/m² — 400 W/m² — 200 W/m²

Electrical Data

Module Type	NSM525 - 144		NSM530 - 144		NSM535 - 144	
	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Watts (Pmax)	525	390.46	530	393.99	535	397.67
Maximum Power Voltage (Vmp)	41.54	39.00	41.76	39.20	41.99	39.42
Maximum Power Current (Imp)	12.64	10.01	12.69	10.05	12.74	10.09
Open-circuit voltage (Voc)	49.80	45.77	49.94	45.92	50.0	46.06
Short-circuit current (Isc) (A)	13.45	10.74	13.5	10.77	13.56	10.81
Module Efficiency STC (%)	20.32		20.51		20.71	
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
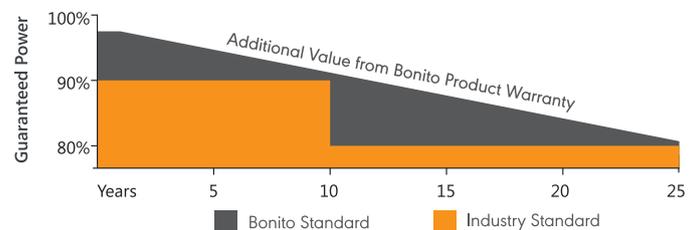
Mechanical Data

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 mm² (IEC) - Length 0.35 mtr (Potrait)/ 1.4mtr(Landscape)
Connectors	MC4 Compatible
By-Pass Diodes	3 Pcs

Navitas Bonito Performance Warranty

10 Years Product Warranty - 25 Years Linear Power Warranty

Additional Value from Bonito Product Warranty

Guaranteed Power

Years 5 10 15 20 25

■ Bonito Standard   ■ Industry Standard

Rate of degradation in first year will be 2% and after that yoy degradation will be 0.55%.

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

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
[1] Warranty applicable as per standard warranty terms as available on www.navitassolar.com

www.navitassolar.com

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