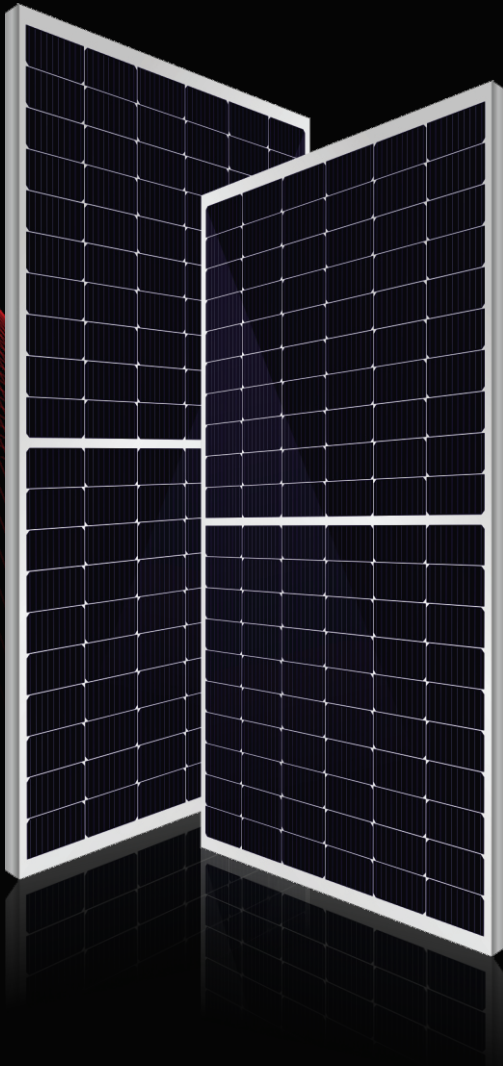


ALPHA PLUS SERIES



MBB, M10 MONOPERC HALF CUT MODULES 144 Cells | 520-550Wp

- Latest Technology MBB, M10 half cut modules providing higher output and high reliability.
- Better performance under low light & high temperature.
- Lower temperature coefficient.
- Ideal for :
Commercial, Residential, Industrial and Institutional Projects.



- 27 years warranty of 85% power output.
- 12 years manufacturers warranty.



Enhanced power output due to revolutionary design



Split junction box improves heat dissipation



Increases shade tolerance



Superior performance of half cell



Lower internal resistance

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MBB, M10 MONOPERC HALF CUT MODULES 144 CELLS

144 Cells - STC							
PV Module Model Name	Rated Maximum Powers at STC (Watts) Tolerance 0 to 3%	Rated Voltage @ STC/Vmp (V) Tolerance $\pm 5\%$	Rated Current @ STC/Imp (A) Tolerance $\pm 5\%$	Open Circuit Voltage @ STC, (Voc) Tolerance $\pm 5\%$	Short Circuit Current @ STC/Isc (A) Tolerance $\pm 5\%$	Module Fill Factor (%) (Tolerance acc. Main)	Module Eff (%) (Positive Tolerance)
NOVA550MP144	550	40.90	13.44	49.93	13.97	78.88	21.29
NOVA545MP144	545	40.89	13.33	49.79	13.89	78.81	21.10
NOVA540MP144	540	40.83	13.23	49.61	13.83	78.73	20.90
NOVA535MP144	535	40.66	13.16	49.41	13.77	78.65	20.71
NOVA530MP144	530	40.45	13.11	49.20	13.71	78.62	20.52
NOVA525MP144	525	40.16	13.08	48.98	13.65	78.57	20.32
NOVA520MP144	520	39.89	13.04	48.69	13.61	78.50	20.13

144 Cells - NOCT					
PV Module Model Name	Rated Maximum Powers at STC (Watts)	Rated Voltage @ STC/Vmp (V)	Rated Current @ STC/Vmp (A)	Open Circuit Voltage @ STC(Voc)	Short Circuit Current @ STC/Isc (A)
NOVA550MP144	409.93	38.61	10.62	48.89	11.32
NOVA545MP144	406.20	38.59	10.55	46.67	11.25
NOVA540MP144	402.48	38.36	10.49	46.50	11.18
NOVA535MP144	398.75	38.21	10.44	46.31	11.13
NOVA530MP144	395.02	38.04	10.38	46.11	11.07
NOVA525MP144	391.30	37.87	10.33	45.91	11.01
NOVA520MP144	387.57	37.65	10.29	45.64	10.97

Temperature Ratings

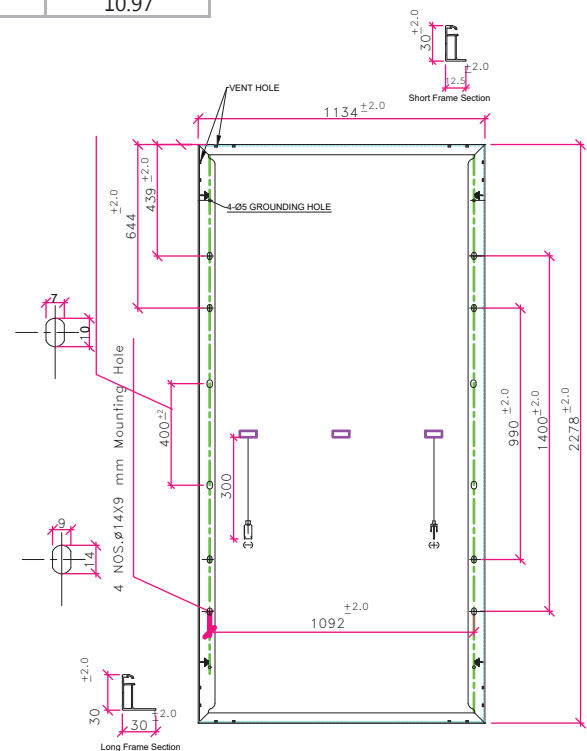
Nominal Operating Cell Temperature (NOCT)	45°C $\pm 2^\circ\text{C}$
Temperature coefficients of Pmax	-0.34%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	+0.029%/°C

Mechanical Data

Dimensions (L x W x T) mm	2278x1134x30mm
Weight (Kgs)	29 ± 0.5
Mounting Hole Distance (X-axis) mm	1092
Mounting Hole Distance (Y-axis) mm	Y1- 990 / Y2 -1400

General Data

Solar Cells	91 X 182
Cell Orientation	24 x 6
Module Structure	ARC Tempered Glass 3.2 mm / EVA Front and Backsheet 1500 V
Frame	Anodized Aluminum Alloy
Junction Box	Potted Split JB IP68
Cable & Connector	4 Sq mm, 300 mm length with MC4 Connector



Maximum Ratings

Operating Temperature	-40 $\pm 85^\circ\text{C}$
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	25 A
Application Classification	Class A
Electrical Positive Tolerance(%)	0 to 3% with Current Binning

Under Standard Test Condition (STC) of Irradiance of 1000 w/m², Spectrum AM 1.5 and Cell Temperature of 25°C and front side testing

Under NOCT testing of Irradiance of 800 w/m², Spectrum AM 1.5 and Cell Temperature of 20°C.

Note: Refer to module installation instructions for maximum loading configurations.

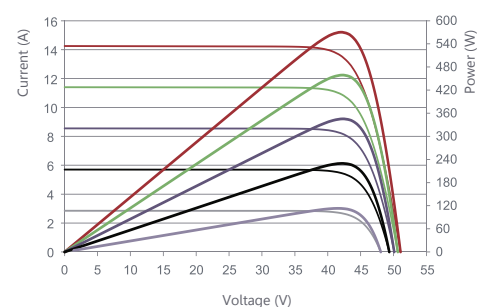
All mechanical dimension tolerance ± 2 mm.

*Listed specifications are subject to change without notice.

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IV Curve



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