



ALPHA PLUS SERIES

MBB, M10 MONOPERC HALF CUT MODULES
132 Cells | Upto - 505 Wp

- 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.



- 25 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 132 CELLS

132 Cells - STC								
PV Module Model Name	Wattage	Rated Voltage @ STC/Vmp (V dc)	Open Circuit Voltage @ STC, (Voc)	Rated Current @ STC/Imp (A)	Short Circuit Current @ STC/Isc (A)	Rated Maximum Power at STC, (Watts)	Module Fill Factor (%)	Module Eff (%)
NOVA505MP132	505	37.62	45.68	13.44	13.97	505	79.26	21.31
NOVA500MP132	500	37.60	45.52	13.32	13.90	500	79.19	21.10
NOVA495MP132	495	37.62	45.25	13.18	13.97	495	78.91	20.89
NOVA490MP132	490	37.47	44.90	13.08	13.91	490	78.65	20.67
NOVA485MP132	485	37.30	44.52	13.00	13.87	485	78.58	20.46
NOVA480MP132	480	37.15	44.48	12.97	13.80	480	78.47	20.25

132 Cells - NOCT					
PV Module Model Name	Maximum Power (Pmax) Wp	Maximum Power Voltage (Vmp) V	Maximum Power Current (Imp) A	Open Circuit Voltage (Voc) V	Short Circuit Current (Isc) A
NOVA505MP132	370	35.10	10.55	42.90	11.37
NOVA500MP132	365	34.94	10.45	42.68	11.26
NOVA495MP132	360	34.78	10.36	42.46	11.15
NOVA490MP132	355	34.55	10.28	42.24	11.05
NOVA485MP132	350	34.39	10.18	42.02	10.94
NOVA480MP132	345	34.23	10.08	41.80	10.83

Temperature Ratings

Nominal Operating Cell Temperature(NOCT)	45°C ± 2 °C
Temperature coefficient of Pmpp	-0.330%/°C
Temperature coefficient of Voc	-0.246%/°C
Temperature coefficient of Isc	+0.0448%/°C

Mechanical Data

Dimensions (L X W X H)MM	2090 x 1134 x 35
MOUNTING HOLE DISTANCE (X-AXIS)	1087
MOUNTING HOLE DISTANCE (Y-AXIS)	Y1- 1050 / Y2 -1500
Weight (Kgs)	27

General Data

Solar Cells	91 X 182
Cell Orientation	22 x 6
MODULE STRUCTURE	ARC Tempered Glass 3.2 mm / EVA Front and back / Backsheet PVDF 1500 V
Frame	Anodized Aluminum Alloy
Junction Box	Potted Split JB IP 68
Cable & Connectors	4 Sq mm, 400 mm length with MC4 Connectors

Maximum Ratings

Operating Temperature	-40 to 85
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	25 A
Application Classification / FIRE	Class A / Class C
Electrical Positive Tolerance (WATTAGE)	(0~4.99) Watt with current binning

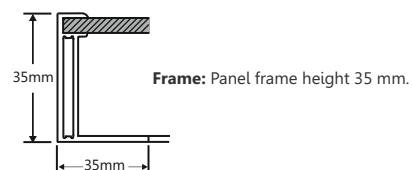
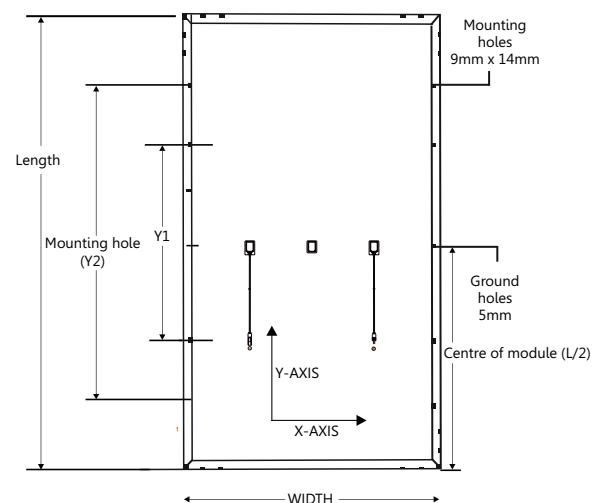
*Under Standard Test Condition (STC) of Irradiance of 1000 W/M², spectrum AM 1.5 and ambient temperature of 25°C

*Under NOCT Test Condition of Irradiance of 800 W/M², spectrum AM 1.5 and ambient temperature of 20°C

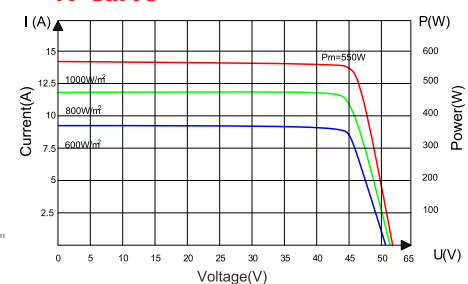
Note: Refer to module installation instructions for maximum loading configurations.

All mechanical dimension tolerance ± 1mm.

*Listed specifications are subject to change without notice.



IV Curve



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