NOVA SYS
Every day is a SUN day

RIGEL PLUS SERIES

BI-FACIAL HALF CUT MONOPERC

144 Cells | 520WP to 550Wp

- Better Efficiency
- More Output
- Excellent PID Resistance
- Least degradation for LID
- High energy yield due to bifacial factor
- Extra rear side power gain

- 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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NovasysGreenergy

MBB, M10 MONO-PERC BIFACIAL SOLAR HALF CUT MODULES 144 CELLS

144 Cells - STC							
PV Module Model Name	Rated Maximum Powers at STC (Watts) Tolerance 0 to3%	Rated Voltage @ STC/Vmp (V) Tolerance ±5%	Open Circuit Voltage @ STC, (Voc) Tolerance ±5%	Rated Current @ STC/Imp (A) Tolerance ±5%	Short Circuit Current @ STC/Isc (A) Tolerance ±5%	Module Fill Factor (%) (Tolerance acc. Main)	Module Eff (%) (Positive Tolerance)
NOVA550BF144	550	40.94	49.93	13.44	13.97	78.88	21.29
NOVA545BF144	545	40.89	49.79	13.33	13.89	78.81	21.10
NOVA540BF144	540	40.83	49.61	13.23	13.83	78.73	20.90
NOVA535BF144	535	40.66	49.41	13.16	13.77	78.65	20.71
NOVA530BF144	530	40.45	49.20	13.11	13.71	78.62	20.52
NOVA525BF 144	525	40.16	48.98	13.08	13.65	78.57	20.32
NOVA520BF144	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)
NOVA550BF 144	409.93	38.61	10.62	48.89	11.32
NOVA545BF 144	406.20	38.59	10.55	46.67	11.25
NOVA540BF 144	402.48	38.36	10.49	46.50	11.18
NOVA535BF 144	398.75	38.21	10.44	46.31	11.13
NOVA530BF 144	395.02	38.04	10.38	46.11	11.07
NOVA525BF 144	391.30	37.87	10.33	45.91	11.01
NOVA520BF144	387.57	37.65	10.29	45.64	10.97

BIFACIAL OUTPUT – BACKSIDE POWER GAIN @ STC* [Bifaciality Factor: 75% ± 10%]			
PV Module Model Name	5% Nominal Maximum power Pmax (Watts)	10% Nominal Maximum power Pmax (Watts)	25% Nominal Maximum power Pmax (Watts)
NOVA550BF144	577.50	605.00	687.50
NOVA545BF144	572.25	599.50	681.25
NOVA540BF144	567.00	594.00	675.00
NOVA535BF144	561.75	588.50	668.75
NOVA530BF144	556.50	583.00	662.50
NOVA525BF144	551.25	577.50	656.25
NOVA520BF144	546.00	572.00	650.00

Temperature Ratings

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature coefficients of Pmax	-0.34%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	+0.029%/°C

Mechanical Data

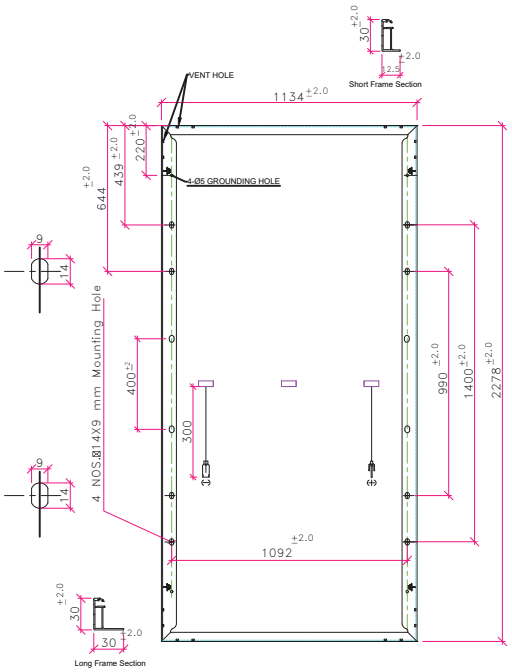
Dimensions (L x W x T) mm	2278×1134×30mm
Weight (Kgs)	29 ± 0.5
Mounting Hole Distance (X-axis) mm	1092
Mounting Hole Distance (Y-axis) mm	Y1- 990 / Y2 -1400

General Data

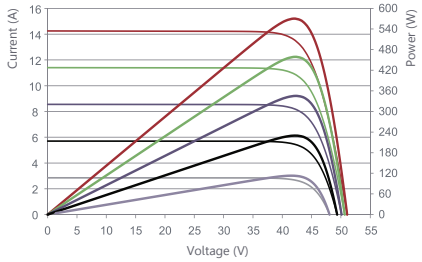
Solar Cells	91 X 182
Cell Orientation	24 x 6
Module Structure	ARC Tempered Glass 3.2 mm / EVA Front and back / Transparent Backsheet 1500 V
Frame	Anodized Aluminum Alloy
Juntion Box	Potted Split JB IP68
Cable & Connector	4 Sq mm, 300 mm length with MC4 Connector

Maximum Ratings

Operating Temperature	-40 ± 85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	25 A
Application Classification	Class A
Electrical Positive Tolerance(%)	0 to 3% with Current Binning



IV Curve



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 ±2mm.

**Listed specifications are subject to change without notice.*

Novasys Greenergy Limited

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