

144 CELL

M6 MBB MONO PERC

0 ~ +5W

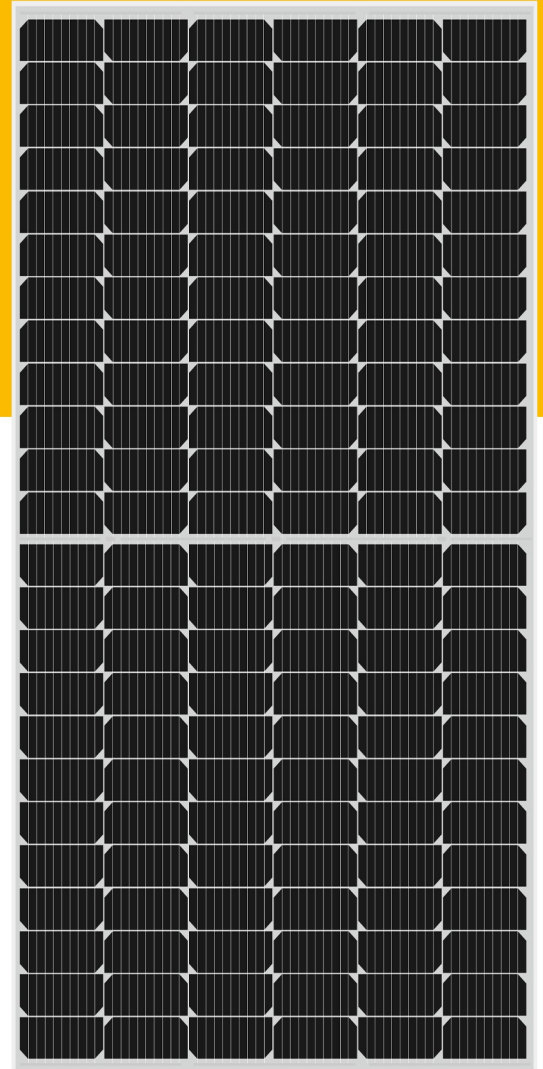
POSITIVE POWER TOLERANCE

20.7%

MAXIMUM EFFICIENCY

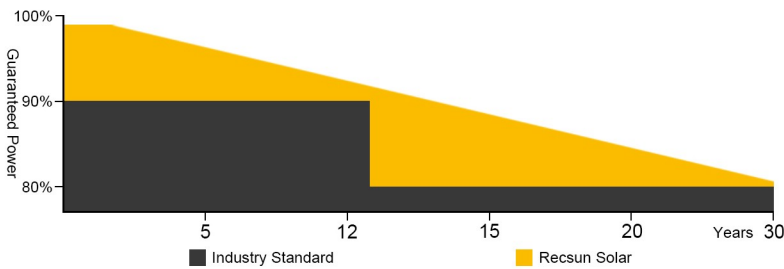
430W-450W

- M6 HALF MONO PERC
- MONOFACIAL / BIFACIAL



LINEAR PERFORMANCE WARRANTY

12 Years Product Warranty · 30 Years Linear Power Warranty



KEY FEATURE

SMBB Technology

Better light trapping and current collection to improve module power output and reliability

PID Resistance

Anti-PID performance guarantee via optimized mass-production process and materials control

Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)

Improve Physical Property

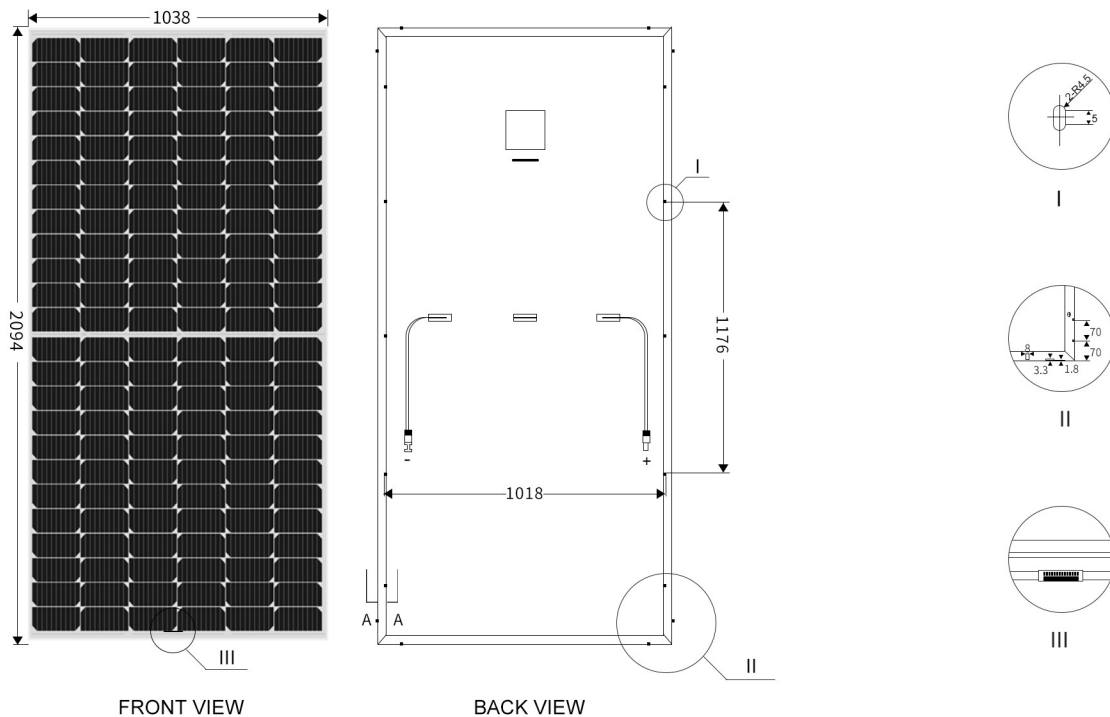
Improve the property of power generating and reliability of the solar system

MODULE PARAMETERS		RS-M430H144M6		RS-M435H144M6		RS-M440H144M6		RS-M445H144M6		RS-M450H144M6	
Testing Condition		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	430	318.3	435	322.0	440	325.8	445	329.8	450	333.2
Maximum Power Voltage	$V_{MPP}(V)$	40.59	37.48	40.79	37.68	40.99	37.88	41.19	38.07	41.39	38.26
Maximum Power Current	$I_{MPP}(A)$	10.60	8.48	10.67	8.54	10.74	8.59	10.81	8.64	10.88	8.70
Open Circuit Voltage	$V_{oc}(V)$	49.22	45.88	49.42	46.08	49.62	46.28	49.86	46.52	50.10	46.76
Short Circuit Current	$I_{sc}(A)$	11.21	9.00	11.28	9.06	11.35	9.11	11.41	9.16	11.48	9.22
Power Output Tolerance	(W)	0 ~ +5		0 ~ +5		0 ~ +5		0 ~ +5		0 ~ +5	
Module Efficiency	(%)	19.8		20.0		20.2		20.5		20.7	

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5, Average efficiency reduction of 4.5% at 200W/m².

NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

DIMENSIONS OF PV MODULE



MECHANICAL PARAMETERS

Solar Cells	MBB MONO PERC 166x83mm
Cell Orientation	144 Cells (6 x 24)
Module Dimensions	2094 x 1038 x 35mm
Weight	23.5Kg
Glass	High Transparency, Anti-Reflective, AR Coated and Heat Tempered Solar Glass -3.2mm
Backsheet	White / Black
Frame	Silver Anodized Aluminium Alloy (Black Available)
Junction Box	IP 68 Rated
Cables	Photovoltaic Technology Cable 4.0mm ² , 350mm
Connector	MC4 Compatible

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of P_{MAX}	-0.36%/°C
Temperature Coefficient of V_{oc}	-0.28%/°C
Temperature Coefficient of I_{sc}	+0.048%/°C

OPERATING PARAMETERS

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	20A
Mechanical Load	5400Pa
Wind Load	2400Pa

PACKAGING CONFIGURATION

Per Pallet: 31 Pieces

Per 40' Container: 726 Pieces

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