

120 CELL

M10 MBB MONO PERC

0 ~ +5W

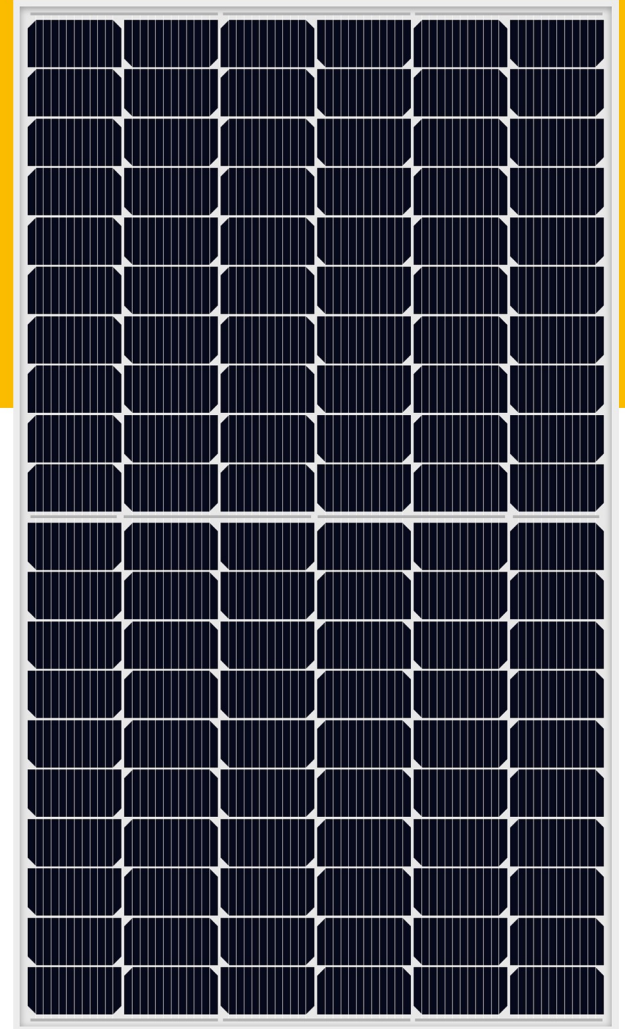
POSITIVE POWER TOLERANCE

21.05%

MAXIMUM EFFICIENCY

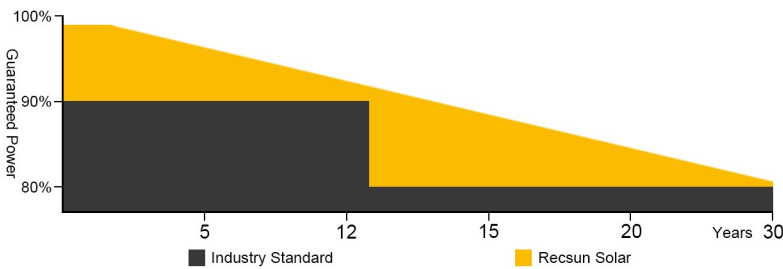
435W-455W

- M10 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

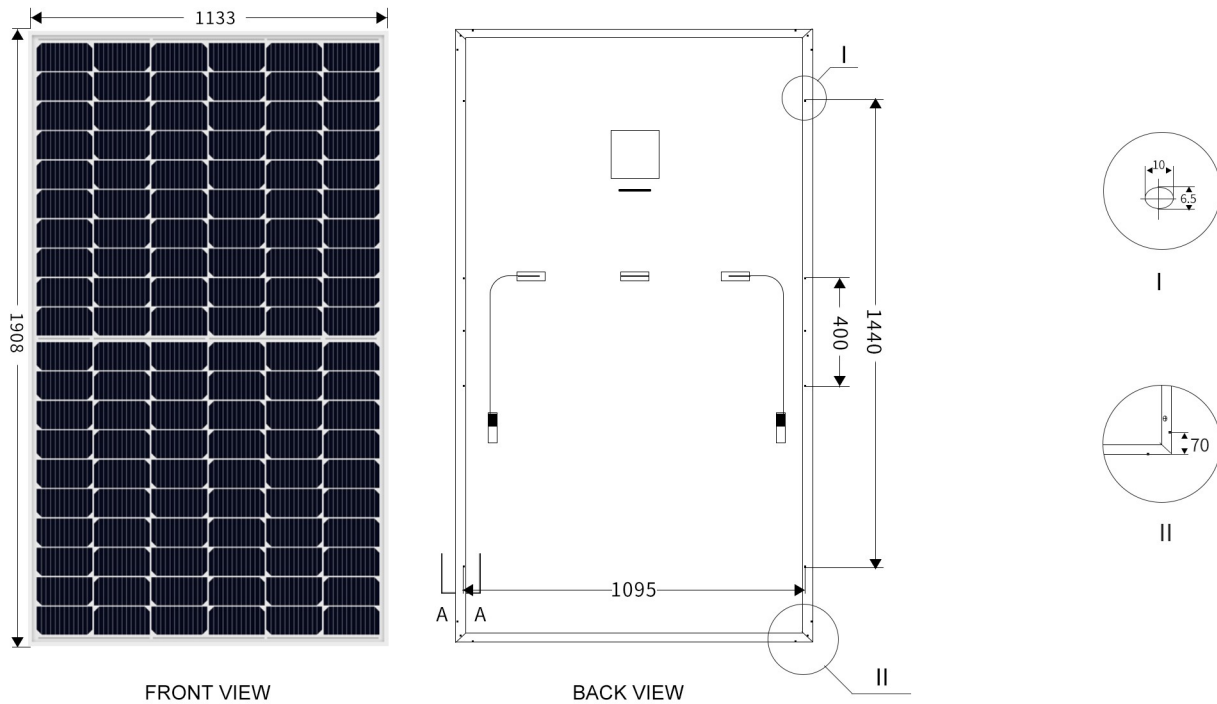
Improve the property of power generating and reliability of the solar system

MODULE PARAMETERS		RS-M435H120M10		RS-M440H120M10		RS-M445H120M10		RS-M450H120M10		RS-M455H120M10	
Testing Condition		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	435	323.74	440	327.46	445	331.18	450	334.90	455	338.63
Maximum Power Voltage	$V_{MPP}(V)$	34.16	31.78	34.21	31.83	34.26	31.87	34.31	31.92	34.36	31.97
Maximum Power Current	$I_{MPP}(A)$	12.74	10.19	12.87	10.29	12.99	10.39	13.12	10.49	13.25	10.60
Open Circuit Voltage	$V_{OC}(V)$	41.38	39.06	41.44	39.12	41.50	39.17	41.56	39.23	41.62	39.29
Short Circuit Current	$I_{SC}(A)$	13.41	10.83	13.55	10.94	13.67	11.04	13.81	11.15	13.95	11.26
Power Output Tolerance	(W)	0 ~ +5		0 ~ +5		0 ~ +5		0 ~ +5		0 ~ +5	
Module Efficiency	(%)	20.13		20.36		20.59		20.82		21.05	

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		TEMPERATURE RATINGS	
Solar Cells	MBB MONO PERC 182x91mm	Nominal Operating Cell Temperature(NOCT)	45±2°C
Cell Orientation	120 Cells (6 x 20)	Temperature Coefficient of P_{MAX}	-0.348%/°C
Module Dimensions	1908 x 1133 x 35mm	Temperature Coefficient of V_{OC}	-0.282%/°C
Weight	24Kg	Temperature Coefficient of I_{SC}	+0.05%/°C
Glass	High Transparency, Anti-Reflective, AR Coated and Heat Tempered Solar Glass -3.2mm	OPERATING PARAMETERS	
Backsheet	White / Black	Operational Temperature	-40 ~ +85°C
Frame	Silver Anodized Aluminium Alloy(Black Available)	Maximum System Voltage	1500V DC
Junction Box	IP 68 Rated	Max Series Fuse Rating	25A
Cables	Photovoltaic Technology Cable 4.0mm ² , 350mm	Mechanical Load	5400Pa
Connector	MC4 Compatible	Wind Load	2400Pa

PACKAGING CONFIGURATION	Per Pallet: 31 Pieces	Per 40' Container: 744 Pieces
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