

100 CELL

M10 MBB MONO N-TYPE

0 ~ +5W

POSITIVE POWER TOLERANCE

21.08%

MAXIMUM EFFICIENCY

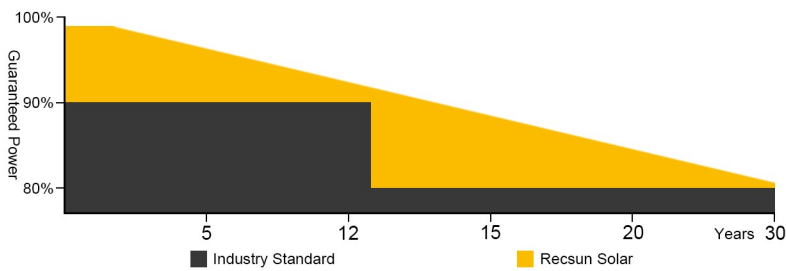
490W-505W

- G12 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)

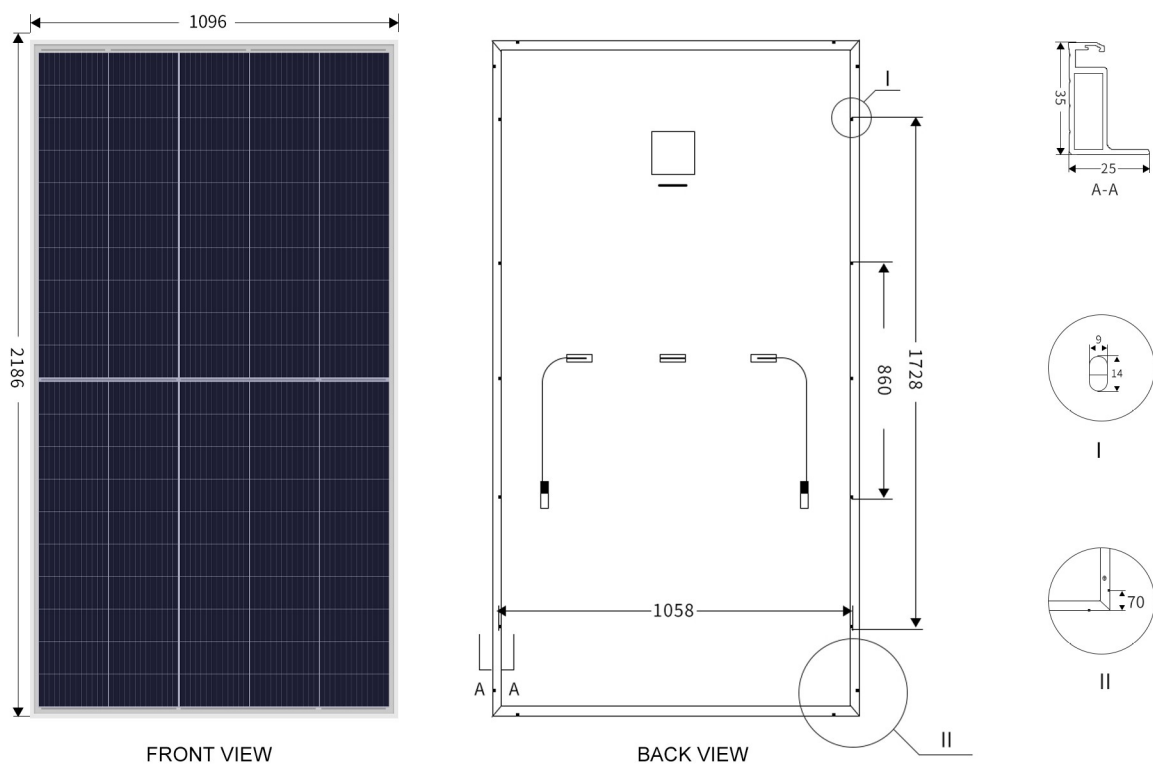
Improve Physical Property

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

MODULE PARAMETERS		RS-M490H100G12		RS-M495H100G12		RS-M500H100G12		RS-M505H100G12	
Testing Condition		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	490	370.94	495	374.73	500	378.51	505	382.30
Maximum Power Voltage	$V_{MPP}(V)$	27.81	25.88	28.02	26.08	28.23	26.27	28.44	26.47
Maximum Power Current	$I_{MPP}(A)$	17.63	14.33	17.67	14.37	17.72	14.41	17.76	14.44
Open Circuit Voltage	$V_{oc}(V)$	33.52	31.59	33.77	31.83	34.02	32.06	34.28	32.30
Short Circuit Current	$I_{sc}(A)$	18.72	15.08	18.76	15.11	18.81	15.16	18.86	15.19
Power Output Tolerance	(W)	0 ~ +5		0 ~ +5		0 ~ +5		0 ~ +5	
Module Efficiency	(%)	20.46		20.67		20.87		21.08	

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 210x105mm	Nominal Operating Cell Temperature(NOCT)	43±2°C
Cell Orientation	100 Cells (5 x 20)	Temperature Coefficient of P_{MAX}	-0.362%/°C
Module Dimensions	1924 x 1038 x 35mm	Temperature Coefficient of V_{oc}	-0.262%/°C
Weight	22.0Kg	Temperature Coefficient of I_{sc}	+0.042%/°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	30A
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: 792 Pieces

© Recsun Solar Energy Co., Ltd All rights reserved. Specifications included in this datasheet are subject to change without notice.