

**108 CELL**

M10 MBB MONO PERC

**0 ~ +5W**

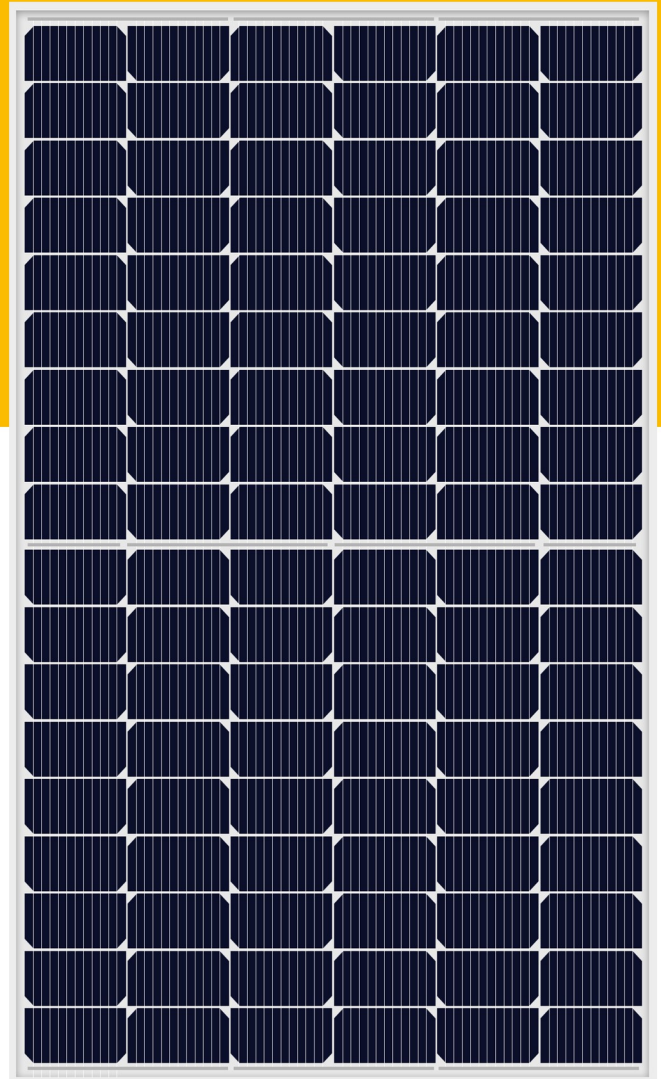
POSITIVE POWER TOLERANCE

**21.51%**

MAXIMUM EFFICIENCY

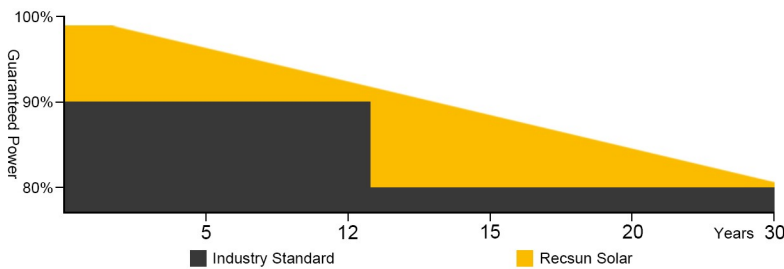
# 400W-420W

- 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)

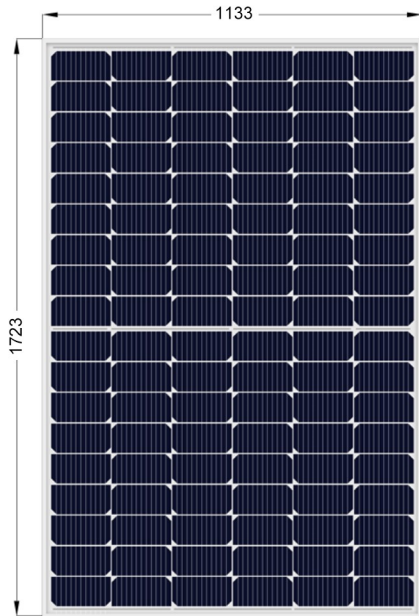
### Improve Physical Property

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

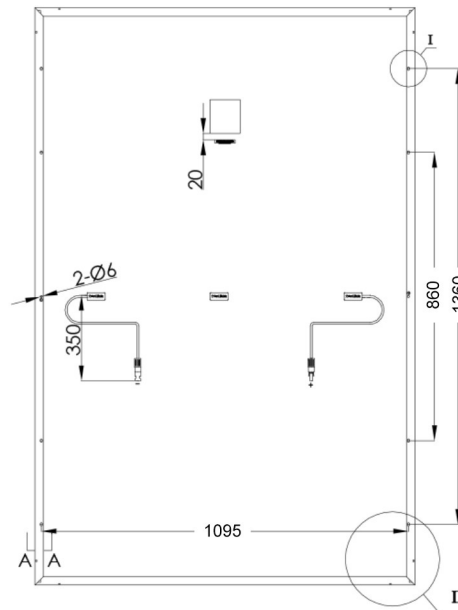
MODULE PARAMETERS		RS-M400H108M10		RS-M405H108M10		RS-M410H108M10		RS-M415H108M10		RS-M420H108M10	
Testing Condition		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	400	298	405	301	410	305	415	309	420	312
Maximum Power Voltage	$V_{MPP}(V)$	30.42	28.42	30.52	28.56	30.62	28.72	30.79	28.88	30.91	29.01
Maximum Power Current	$I_{MPP}(A)$	13.15	10.47	13.27	10.55	13.39	10.62	13.48	10.69	13.59	10.76
Open Circuit Voltage	$V_{oc}(V)$	36.98	34.90	37.06	34.98	37.14	35.05	37.31	35.21	37.43	35.39
Short Circuit Current	$I_{sc}(A)$	13.78	11.13	13.85	11.19	13.92	11.24	14.01	11.32	14.12	11.38
Power Output Tolerance	(W)	0 ~ +5		0 ~ +5		0 ~ +5		0 ~ +5		0 ~ +5	
Module Efficiency	(%)	20.48		20.74		21.00		21.25		21.51	

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5, Average efficiency reduction of 4.5% at 200W/m<sup>2</sup>.  
 NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

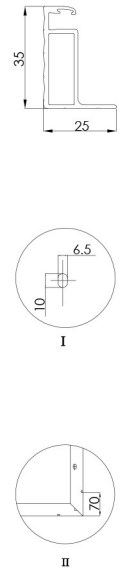
### DIMENSIONS OF PV MODULE



FRONT VIEW



BACK VIEW



### MECHANICAL PARAMETERS

Solar Cells	MBB MONO PERC 182x91mm
Cell Orientation	108 Cells (6 x 18)
Module Dimensions	1723 x 1133 x 30mm
Weight	21.5Kg
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 <sup>2</sup> , 350mm
Connector	MC4 Compatible

### TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of $P_{MAX}$	-0.348%/°C
Temperature Coefficient of $V_{oc}$	-0.282%/°C
Temperature Coefficient of $I_{sc}$	+0.05%/°C

### OPERATING PARAMETERS

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A
Mechanical Load	5400Pa
Wind Load	2400Pa

### PACKAGING CONFIGURATION

Per Pallet: 36 Pieces

Per 40' Container: 936 Pieces

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