

144 CELL

M10 MBB MONO N-TYPE

0 ~ +5W

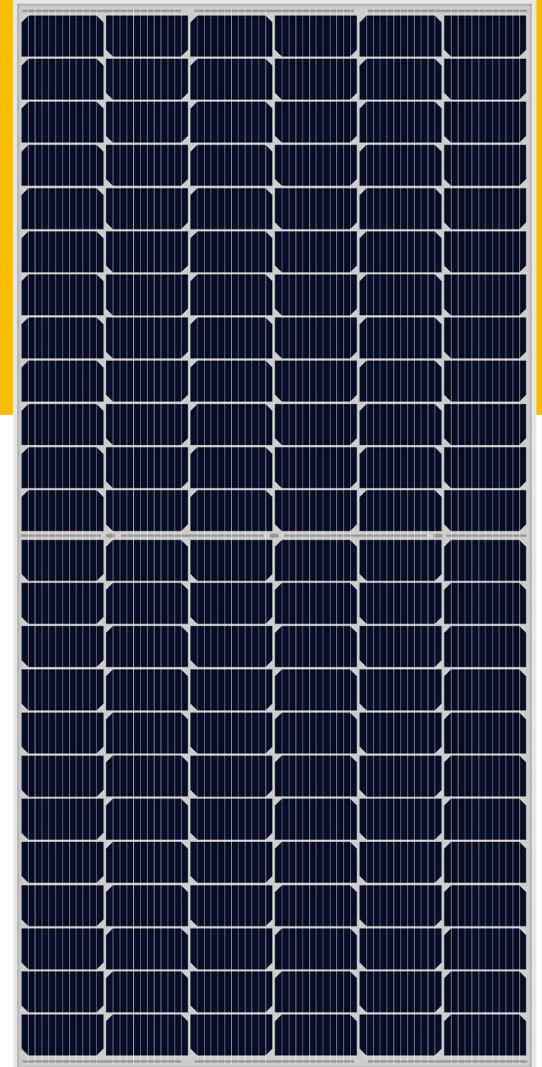
POSITIVE POWER TOLERANCE

22.5%

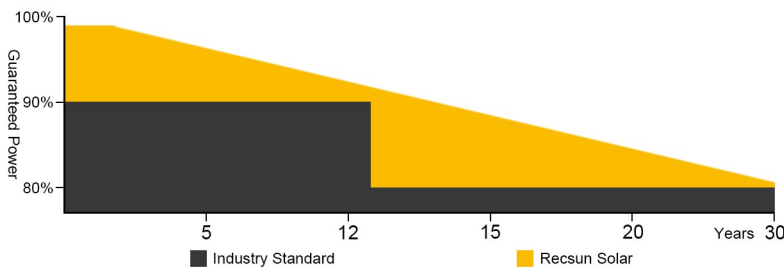
MAXIMUM EFFICIENCY

560W-580W

- M10 HALF CELL N-TYPE
- 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)

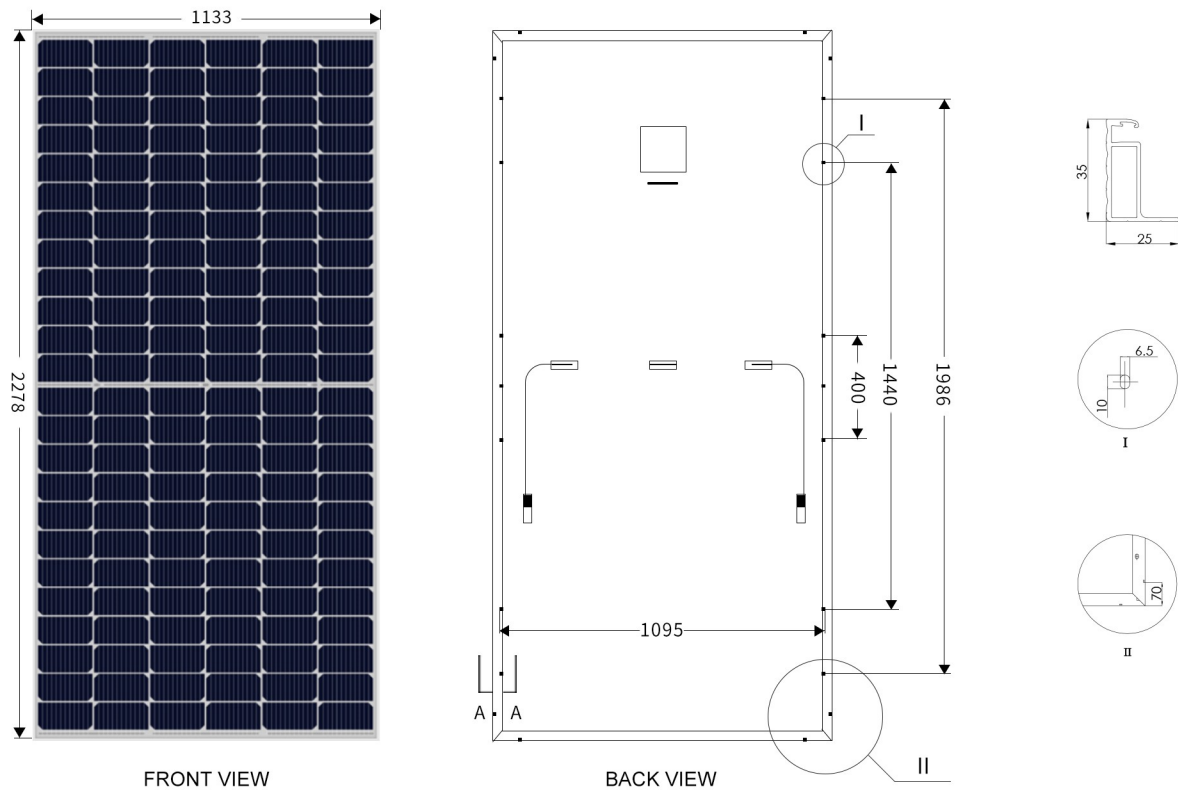
Improve Physical Property

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

| MODULE PARAMETERS | | RS-M560H144M10 | | RS-M565H144M10 | | RS-M570H144M10 | | RS-M575H144M10 | | RS-M580H144M10 | |
|------------------------|--------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Testing Condition | | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power | $P_{MAX}(W)$ | 560 | 421 | 565 | 425 | 570 | 429 | 575 | 432 | 580 | 435 |
| Maximum Power Voltage | $V_{MPP}(V)$ | 41.77 | 39.25 | 41.92 | 39.38 | 42.07 | 39.51 | 42.22 | 39.60 | 42.37 | 39.69 |
| Maximum Power Current | $I_{MPP}(A)$ | 13.41 | 10.73 | 13.48 | 10.79 | 13.55 | 10.85 | 13.62 | 10.92 | 13.69 | 10.99 |
| Open Circuit Voltage | $V_{OC}(V)$ | 50.47 | 47.94 | 50.60 | 48.06 | 50.74 | 48.20 | 50.88 | 48.33 | 51.02 | 48.46 |
| Short Circuit Current | $I_{SC}(A)$ | 14.15 | 11.42 | 14.23 | 11.49 | 14.31 | 11.55 | 14.39 | 11.62 | 14.47 | 11.69 |
| Power Output Tolerance | (W) | 0 ~ +5 | | 0 ~ +5 | | 0 ~ +5 | | 0 ~ +5 | | 0 ~ +5 | |
| Module Efficiency | (%) | 21.7 | | 21.9 | | 22.1 | | 22.3 | | 22.5 | |

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 N-Type 182 x 91mm | Nominal Operating Cell Temperature(NOCT) | 45±2°C |
| Cell Orientation | 144 Cells (6 x 24) | Temperature Coefficient of P_{MAX} | -0.348%/°C |
| Module Dimensions | 2278 x 1133 x 35mm | Temperature Coefficient of V_{OC} | -0.282%/°C |
| Weight | 28kg | 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: 620 Pieces |

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