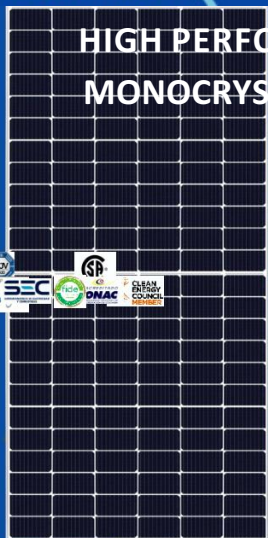


made in China

HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE



RSM144-9-540M-560M

| | |
|--|--|
| 144 CELL Mono PERC Module | 540-560Wp Power Output Range |
| 1500VDC Maximum System Voltage | 21.7% Maximum Efficiency |

KEY SALIENT FEATURES

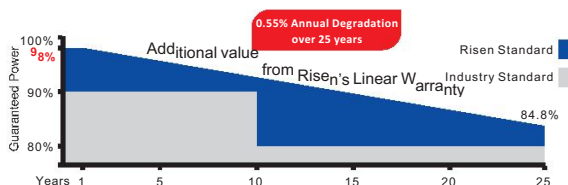
- Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing
- Industry leading lowest thermal co-efficient of power
- Industry leading 12 years product warranty
- Excellent low irradiance performance
- Excellent PID resistance
- Positive power tolerance of 0~+3%
- Dual stage 100% EL Inspection warranting defect-free product
- Module Imp binning radically reduces string mismatch losses
- Excellent wind load 2400Pa & snow load 5400Pa under certain installation method
- Comprehensive product and system certification
 - ◆ IEC61215:2016; IEC61730-1/-2:2016;
 - ◆ ISO 9001:2015 Quality Management System
 - ◆ ISO 14001:2015 Environmental Management System
 - ◆ ISO 45001:2018 Occupational Health and Safety Management System



* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

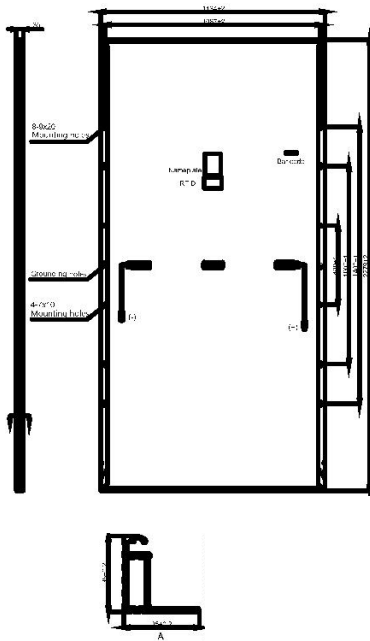
LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty



* Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

| Model Number | RSM144-9-540M | RSM144-9-545M | RSM144-9-550M | RSM144-9-555M | RSM144-9-560M |
|-------------------------------|---------------|---------------|---------------|---------------|---------------|
| Rated Power in Watts-Pmax(Wp) | 540 | 545 | 550 | 555 | 560 |
| Open Circuit Voltage-Voc(V) | 49.60 | 49.70 | 49.80 | 49.91 | 50.01 |
| Short Circuit Current-Isc(A) | 13.74 | 13.84 | 13.94 | 14.04 | 14.14 |
| Maximum Power Voltage-Vmpp(V) | 41.99 | 42.11 | 42.20 | 42.29 | 42.38 |
| Maximum Power Current-Impp(A) | 12.87 | 12.96 | 13.04 | 13.13 | 13.22 |
| Module Efficiency (%) * | 20.9 | 21.1 | 21.3 | 21.5 | 21.7 |

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

* Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA (NMOT)

| Model Number | RSM144-9-540M | RSM144-9-545M | RSM144-9-550M | RSM144-9-555M | RSM144-9-560M |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power-Pmax (Wp) | 402.0 | 405.8 | 409.4 | 413.3 | 417.1 |
| Open Circuit Voltage-Voc (V) | 46.77 | 46.87 | 46.96 | 47.07 | 47.17 |
| Short Circuit Current-Isc (A) | 11.27 | 11.35 | 11.43 | 11.51 | 11.59 |
| Maximum Power Voltage-Vmpp (V) | 38.80 | 38.90 | 39.00 | 39.10 | 39.20 |
| Maximum Power Current-Impp (A) | 10.36 | 10.43 | 10.50 | 10.57 | 10.64 |

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

MECHANICAL DATA

| | |
|--------------------|--|
| Solar cells | Monocrystalline |
| Cell configuration | 144 cells (6×12+6×12) |
| Module dimensions | 2279×1134×35mm |
| Weight | 27.8kg |
| Superstrate | High Transmission, Low Iron, Tempered ARC Glass |
| Substrate | White Back-sheet |
| Frame | Anodized Aluminium Alloy, Silver Color |
| J-Box | Potted, IP68, 1500VDC, 3 Schottky bypass diodes |
| Cables | 4.0mm ² , Positive(+)350mm, Negative(-)230mm (Connector Included) |
| Connector | Risen Twinsel PV-SY02, IP68 |

TEMPERATURE & MAXIMUM RATINGS

| | |
|---|-------------|
| Nominal Module Operating Temperature (NMOT) | 44°C±2°C |
| Temperature Coefficient of Voc | -0.275%/°C |
| Temperature Coefficient of Isc | 0.045%/°C |
| Temperature Coefficient of Pmax | -0.35%/°C |
| Operational Temperature | -40°C~+85°C |
| Maximum System Voltage | 1500VDC |
| Max Series Fuse Rating | 25A |
| Limiting Reverse Current | 25A |

PACKAGING CONFIGURATION

| | 40ft(HQ) | 20ft |
|--|----------------|----------------|
| Number of modules per container | 620 | 155 |
| Number of modules per pallet | 31 | 31 |
| Number of pallets per container | 20 | 5 |
| Packaging box dimensions (LxWxH) in mm | 2320×1130×1260 | 2320×1130×1260 |
| Box gross weight[kg] | 908 | 908 |

