# HIGH PERFORMANCE POLYCRYSTALLINE MODULE

## RSM60-6-250P-270P/3BB

**60 CELL** POLYCRYSTALLINE MODULE

**250-270Wp** POWER OUTPUT RANGE

**16.5%** MAXIMUM EFFICIENCY

risen solar technology

### About Risen Energy

Risen Energy is a leading, global tier 1 manufacturer of high-performance solar photovoltaic products and provider of total business solutions for residential, commercial and utility-scale power generation. The company, founded in 2002, and publicly listed in 2010, compels value generation for its chosen global customers. Techno-commercial innovation, underpinned by consummate quality and support, encircle Risen Energy's total Solar PV business solutions which are among the most powerful and cost-effective in the industry. With local market presence and strong financial bankability status, we are committed, and able, to building strategic, mutually beneficial collaborations with our partners, as together we capitalise on the rising value of green energy.

Additional Insurance Options
PowerGuard SPECIALTY INSURANCE SERVICES
CHUBB PICC

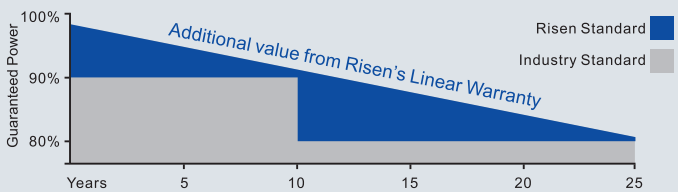
ISO9001
ISO14001
OHSAS18001

## KEY SALIENT FEATURES

- Bloomberg TIER 1 — **Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing**
- Photon — **Photon Independent field testing - Ranked in the top 2 of 176 international suppliers**
- **Industry leading lowest thermal co-efficient of Power**
- 12 years — **Industry leading 12years product warranty**
- **Excellent low irradiance performance**
- PID — **Excellent PID resistance**
- **Positive tight power tolerance of 3%**
- 3 EL — **Triple stage 100% EL Inspection warranting defect-free product**
- **Module Imp binning radically reduces string mismatch losses**
- **Warranted reliability and stringent quality assurances' well beyond certified requirements**
- **Certified to withstand severe environmental conditions**
  - **Anti-reflective & anti-soiling surface minimise power loss from dirt and dust**
  - **Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments**
  - **Excellent mechanical load 2400Pa & snow load 5400Pa resistance**

## LINEAR PERFORMANCE WARRANTY

**12 year Product Warranty / 25 year Linear Power Warranty**




**RISEN ENERGY CO., LTD.**
Tashan Industry Zone, Meilin,
Ninghai 315609,Ningbo | PRC
Tel: +86-574-59953239
Fax: +86-574-59953599
E-mail: info@risenenergy.com
Website: www.risenenergy.com

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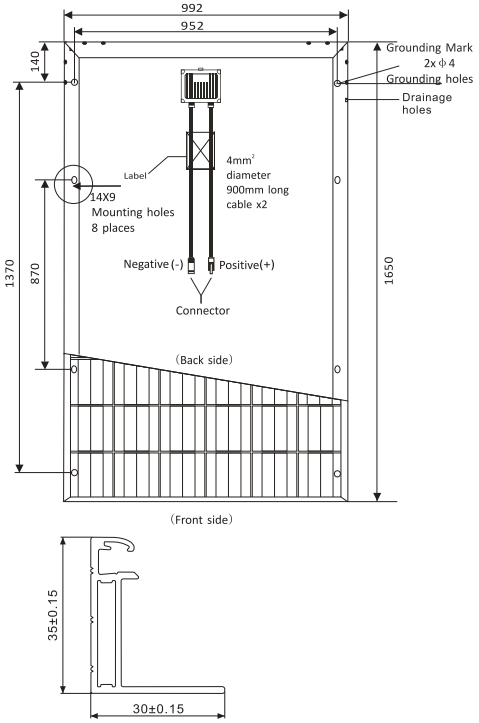
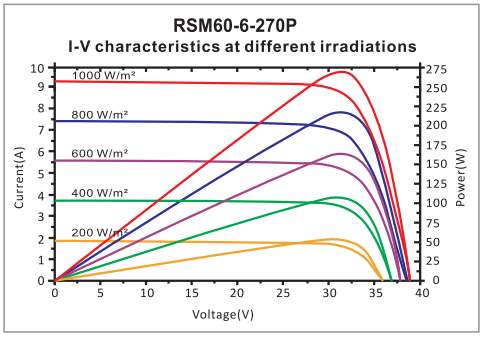
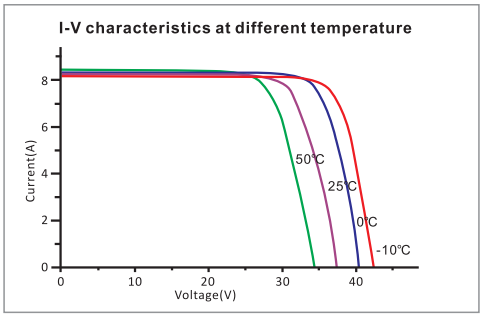
## Dimension of PV Modules

Unit: mm




**Our Partners:**

## ELECTRICAL DATA(STC)

| Model Number | RSM60-6-250P | RSM60-6-255P | RSM60-6-260P | RSM60-6-265P | RSM60-6-270P |
|---|---|---|---|---|---|
| Rated Power in Watts-Pmax(Wp) | **250** | **255** | **260** | **265** | **270** |
| Open Circuit Voltage-Voc(V) | 37.4 | 37.6 | 37.8 | 38.0 | 38.2 |
| Short Circuit Current-Isc(A) | 8.88 | 8.96 | 9.04 | 9.12 | 9.20 |
| Maximum Power Voltage-Vmpp(V) | 30.0 | 30.3 | 30.6 | 30.9 | 31.2 |
| Maximum Power Current-Impp(A) | 8.34 | 8.42 | 8.50 | 8.58 | 8.66 |
| Module Efficiency (%) | 15.3 | 15.6 | 15.9 | 16.2 | 16.5 |

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

## ELECTRICAL DATA(NOCT)

| Model Number | RSM60-6-250P | RSM60-6-255P | RSM60-6-260P | RSM60-6-265P | RSM60-6-270P |
|---|---|---|---|---|---|
| Maximum Power-Pmax (Wp) | 186 | 190 | 194 | 197 | 201 |
| Open Circuit Voltage-Voc (V) | 34.8 | 35.0 | 35.2 | 35.3 | 35.5 |
| Short Circuit Current-Isc (A) | 7.18 | 7.25 | 7.31 | 7.38 | 7.44 |
| Maximum Power Voltage-Vmpp (V) | 27.8 | 28.0 | 28.1 | 28.3 | 28.40 |
| Maximum Power Current-Impp (A) | 6.69 | 6.79 | 6.89 | 6.98 | 7.08 |

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

## MECHANICAL DATA

| | |
|---|---|
| Solar cells | Polycrystalline 156 × 156 mm (6 inches) |
| Cell configuration | 60 cells (6×10) |
| Module dimensions | 1650×992×35mm (64.96″×39.06″×1.38″) |
| Weight | 18kg (40lb) |
| Superstrate | 3.2 mm,High Transmission, Low Iron, Tempered ARC Glass |
| Substrate | White Backsheet |
| Frame | Silver Anodized Aluminium Alloy type 6063T5, Silver Color |
| J-Box | Potted, IP67, 1000VDC, 3 Schottky bypass diodes |
| Cables | 4.0mm² (12AWG), 900mm length |
| Connector | IP67 MC4 or its Compatible |

## TEMPERATURE & MAXIMUM RATINGS

| | |
|---|---|
| Nominal Operating Cell Temperature (NOCT) | 45°C± 2°C (113±35.6°F) |
| Temperature Coefficient of Voc | -0.32%/°C (-0.18%/°F) |
| Temperature Coefficient of Isc | 0.05%/°C (0.028%/°F) |
| Temperature Coefficient of Pmax | -0.39%/°C (-0.21%/°F) |
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1000VDC |
| Max Series Fuse Rating | 15A |
| Limiting Reverse Current | 15A |

## PACKAGING CONFIGURATION

| | 40ft | 20ft |
|---|---|---|
| Number of modules per container | 840 | 360 |
| Number of modules per pallet | 30 | 30 |
| Number of pallets per container | 28 | 12 |
| Packaging box dimensions (LxWxH) in mm | 1680×1120×1120 | 1680×1120×1120 |
| Box gross weight[kg] | 580 | 580 |

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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*THE POWER OF RISING VALUE*