

# HIGH PERFORMANCE POLYCRYSTALLINE MODULE

## RSM60-6-270P-290P

### 60 CELL POLYCRYSTALLINE MODULE

### 270-290Wp POWER OUTPUT RANGE

### 1500VDC MAXIMUM SYSTEM VOLTAGE

### 17.7% MAXIMUM EFFICIENCY



## 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 1986, 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.

## 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



15 years product warranty for rooftop mounted PV system



Excellent low irradiance performance



Excellent PID resistance



Positive tight power tolerance



Dual 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



ISO9001  
ISO14001  
OHSAS18001  
IEC TS 62941



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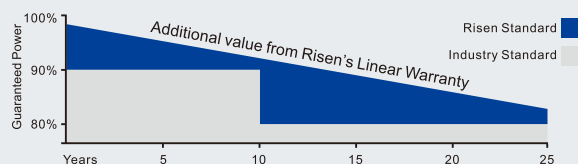
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## LINEAR PERFORMANCE WARRANTY

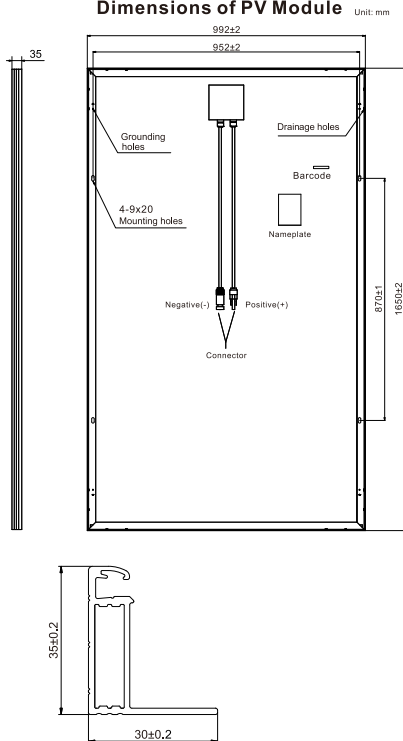
15 year Product Warranty / 25 year Linear Power Warranty



Applies to rooftop market in Australia only.

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### Dimensions of PV Module



### ELECTRICAL DATA (STC)

| Model Number                  | RSM60-6-270P | RSM60-6-275P | RSM60-6-280P | RSM60-6-285P | RSM60-6-290P |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|
| Rated Power in Watts-Pmax(Wp) | 270          | 275          | 280          | 285          | 290          |
| Open Circuit Voltage-Voc(V)   | 37.90        | 38.10        | 38.30        | 38.40        | 38.60        |
| Short Circuit Current-Isc(A)  | 9.20         | 9.30         | 9.40         | 9.50         | 9.60         |
| Maximum Power Voltage-Vmpp(V) | 31.05        | 31.25        | 31.50        | 31.70        | 31.90        |
| Maximum Power Current-Impp(A) | 8.70         | 8.80         | 8.90         | 9.00         | 9.10         |
| Module Efficiency (%) *       | 16.5         | 16.8         | 17.1         | 17.4         | 17.7         |

STC: Irradiance 1000 W/m<sup>2</sup>, 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                   | RSM60-6-270P | RSM60-6-275P | RSM60-6-280P | RSM60-6-285P | RSM60-6-290P |
|--------------------------------|--------------|--------------|--------------|--------------|--------------|
| Maximum Power-Pmax (Wp)        | 201.4        | 205.1        | 209.1        | 212.8        | 216.5        |
| Open Circuit Voltage-Voc (V)   | 34.90        | 35.00        | 35.20        | 35.30        | 35.50        |
| Short Circuit Current-Isc (A)  | 7.54         | 7.63         | 7.71         | 7.79         | 7.87         |
| Maximum Power Voltage-Vmpp (V) | 28.40        | 28.60        | 28.80        | 29.00        | 29.20        |
| Maximum Power Current-Impp (A) | 7.09         | 7.17         | 7.25         | 7.34         | 7.42         |

NMOT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s.

### MECHANICAL DATA

|                    |                                                    |
|--------------------|----------------------------------------------------|
| Solar cells        | Polycrystalline, 5BB                               |
| Cell configuration | 60 cells (6×10)                                    |
| Module dimensions  | 1650×992×35mm                                      |
| Weight             | 15kg                                               |
| Superstrate        | High Transmission, Low Iron, Tempered ARC Glass    |
| Substrate          | White Back-sheet                                   |
| Frame              | Anodized Aluminium Alloy type 6063T5, Silver Color |
| J-Box              | Potted, IP68, 1500VDC, 3 Schottky bypass diodes    |
| Cables             | 4.0mm <sup>2</sup> (12AWG), 900mm length           |
| Connector          | Risen Twinsel PV-SY02, IP68                        |

### TEMPERATURE & MAXIMUM RATINGS

|                                             |             |
|---------------------------------------------|-------------|
| Nominal Module Operating Temperature (NMOT) | 45°C±2°C    |
| Temperature Coefficient of Voc              | -0.32%/°C   |
| Temperature Coefficient of Isc              | 0.055%/°C   |
| Temperature Coefficient of Pmax             | -0.39%/°C   |
| Operational Temperature                     | -40°C~+85°C |
| Maximum System Voltage                      | 1500VDC     |
| Max Series Fuse Rating                      | 20A         |
| Limiting Reverse Current                    | 20A         |

### PACKAGING CONFIGURATION

|                                        | 40ft(HQ)       | 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 | 1680×1105×1130 | 1680×1105×1130 |
| Box gross weight[kg]                   | 500            | 500            |

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

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