

HIGH PERFORMANCE MONOCRYSTALLINE MODULE

RSM60-6-270M-290M/4BB

60 CELL MONOCRYSTALLINE MODULE

270-290Wp POWER OUTPUT RANGE

17.7% MAXIMUM EFFICIENCY



ISO9001
ISO14001
OHSAS18001



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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.

KEY SALIENT FEATURES



Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing



Photon Independent field testing - Ranked in the top 2 of 176 international suppliers



Industry leading lowest thermal co-efficient of Power



Industry leading 12 years product warranty



Excellent low irradiance performance



Excellent PID resistance



Positive tight power tolerance of 3%



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

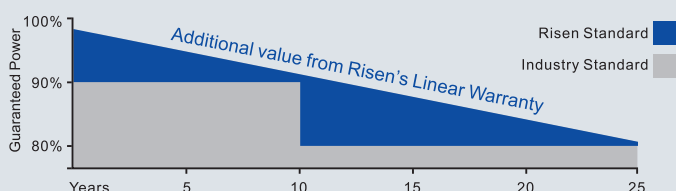


Certified to withstand severe environmental conditions

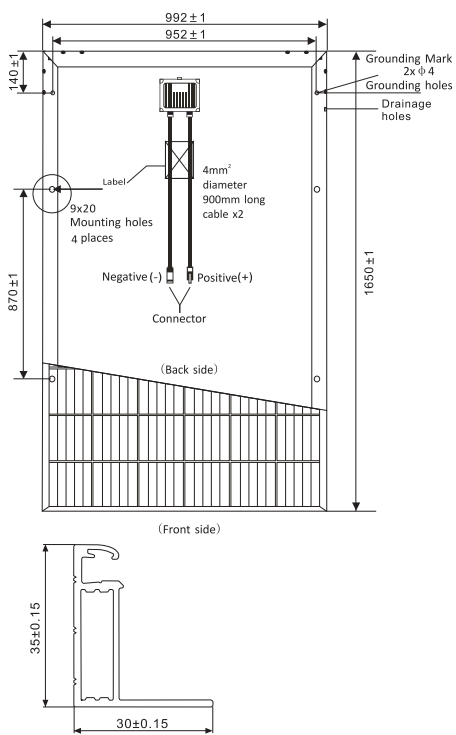
- ♦ Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
- ♦ Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
- ♦ Excellent mechanical load 2400Pa & snow load 5400Pa resistance

LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty

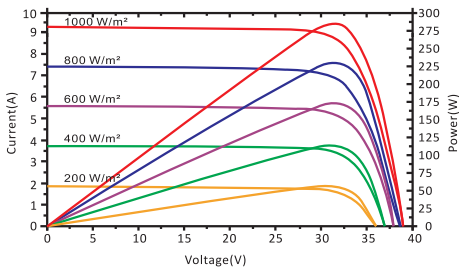


Dimension of PV Modules

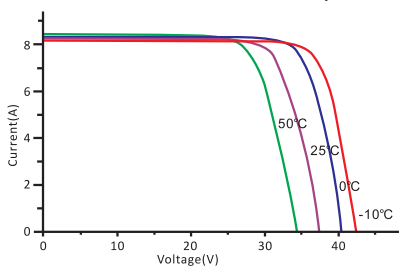


RSM60-6-280M

I-V characteristics at different irradiances



I-V characteristics at different temperature



Our Partners:

ELECTRICAL DATA(STC)

Model Number	RSM60-6-270M	RSM60-6-275M	RSM60-6-280M	RSM60-6-285M	RSM60-6-290M
Rated Power in Watts-P _{max} (W _p)	270	275	280	285	290
Open Circuit Voltage-V _{oc} (V)	38.4	38.5	38.7	38.8	38.9
Short Circuit Current-I _{sc} (A)	9.27	9.36	9.47	9.56	9.65
Maximum Power Voltage-V _{mpp} (V)	30.8	31.0	31.2	31.4	31.6
Maximum Power Current-I _{mpp} (A)	8.77	8.88	8.98	9.08	9.18
Module Efficiency (%)	16.6	16.9	17.2	17.5	17.7

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

ELECTRICAL DATA(NOCT)

Model Number	RSM60-6-270M	RSM60-6-275M	RSM60-6-280M	RSM60-6-285M	RSM60-6-290M
Maximum Power-P _{max} (W _p)	197.4	201.0	204.7	208.3	211.0
Open Circuit Voltage-V _{oc} (V)	35.2	35.5	35.8	36.2	36.5
Short Circuit Current-I _{sc} (A)	7.31	7.35	7.41	7.45	7.50
Maximum Power Voltage-V _{mpp} (V)	28.4	28.6	28.9	29.1	29.4
Maximum Power Current-I _{mpp} (A)	6.95	7.03	7.09	7.16	7.23

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

MECHANICAL DATA

Solar cells	Monocrystalline 156.75×156.75 mm
Cell configuration	60 cells (6×10)
Module dimensions	1650×992×35mm
Weight	18kg
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	4.0mm ² (12AWG), 900mm length
Connector	IP67 MC4 Compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of I _{sc}	0.05%/°C
Temperature Coefficient of P _{max}	-0.39%/°C
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	1680×1120×1135	1680×1120×1135
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