HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE

RSM60-6-295M-315M

60 CELL MONOCRYSTALLINE MODULE

295-315Wp POWER OUTPUT RANGE

1500VDC MAXIMUM SYSTEM VOLTAGE

19.2% 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 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.

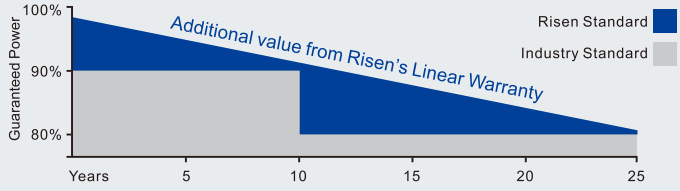
ISO9001
ISO14001
OHSAS18001
IEC TS 62941

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 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

LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty



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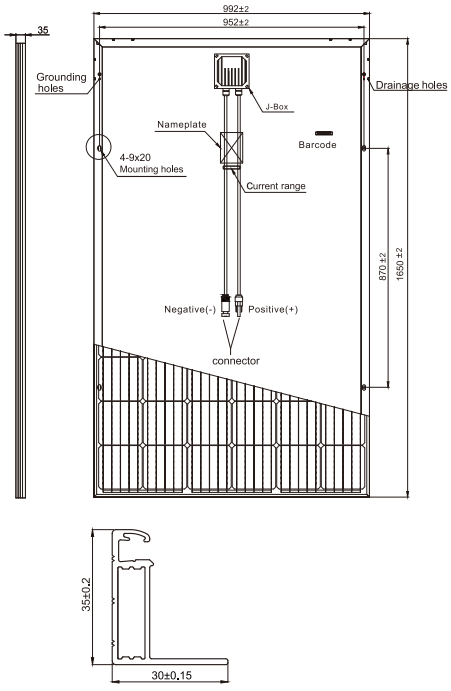
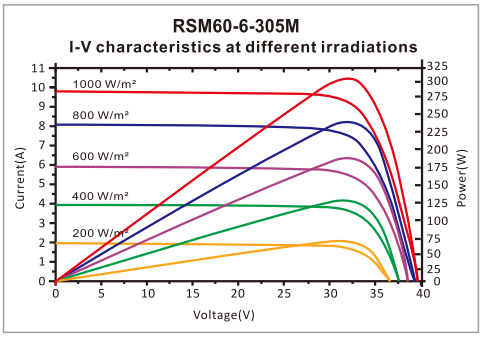
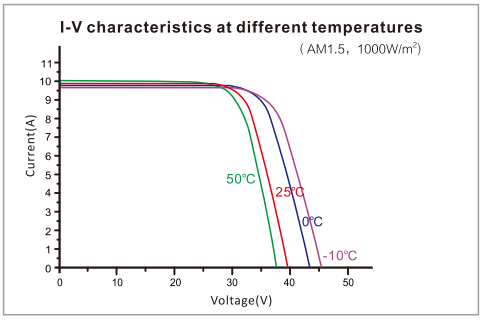
Dimensions of PV Module

Unit: mm







Our Partners:

ELECTRICAL DATA (STC)

Model Number	RSM60-6-295M	RSM60-6-300M	RSM60-6-305M	RSM60-6-310M	RSM60-6-315M
Rated Power in Watts-Pmax(Wp)	**295**	**300**	**305**	**310**	**315**
Open Circuit Voltage-Voc(V)	38.80	39.10	39.40	39.80	40.10
Short Circuit Current-Isc(A)	9.70	9.75	9.80	9.85	9.90
Maximum Power Voltage-Vmpp(V)	32.25	32.65	33.00	33.35	33.70
Maximum Power Current-Impp(A)	9.15	9.20	9.25	9.30	9.35
Module Efficiency (%)	18.0	18.3	18.6	18.9	19.2

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

ELECTRICAL DATA (NMOT)

Model Number	RSM60-6-295M	RSM60-6-300M	RSM60-6-305M	RSM60-6-310M	RSM60-6-315M
Maximum Power-Pmax (Wp)	220.6	224.5	228.2	231.8	235.5
Open Circuit Voltage-Voc (V)	35.70	36.00	36.30	36.60	36.90
Short Circuit Current-Isc (A)	7.95	8.00	8.04	8.08	8.12
Maximum Power Voltage-Vmpp (V)	29.50	29.90	30.20	30.50	30.90
Maximum Power Current-Impp (A)	7.47	7.51	7.55	7.59	7.63

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

MECHANICAL DATA

Solar cells	Monocrystalline 156.75×156.75 mm, 5BB
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 Back-sheet
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP67, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm² (12AWG), 900mm length
Connector	Risen Twinsel PV-SY02, IP67

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	45°C±2°C
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	0.05%/°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	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]	590	590

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

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THE POWER OF RISING VALUE

REM60-M-5BB-EN-H1-2-2019