

## RISEN HALF-CUT CELL MODULE



Less influence  
from shadow



Reduce hot  
spot effect



Output increase  
6-8W



Easy to  
Install

**315WP MONO PERC**

# HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE

RSM120-6-295M-315M/5BB

120 CELL MONOCRYSTALLINE MODULE

295-315Wp POWER OUTPUT RANGE

1500VDC MAXIMUM SYSTEM VOLTAGE

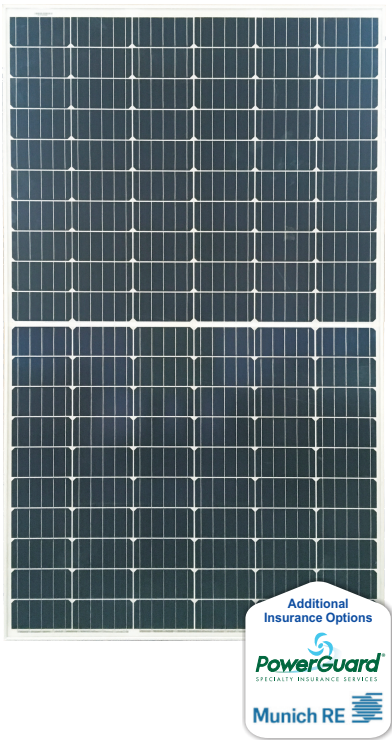
18.9% MAXIMUM EFFICIENCY



## 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



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



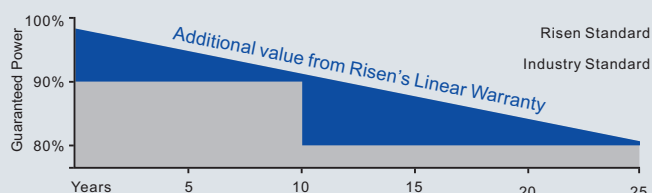
ISO9001  
ISO14001  
OHSAS18001



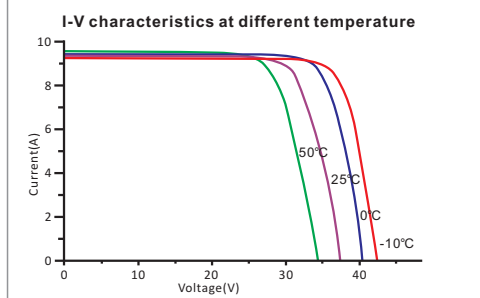
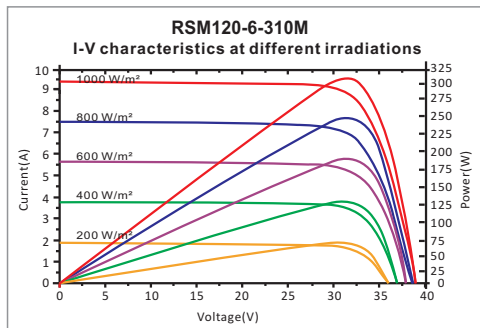
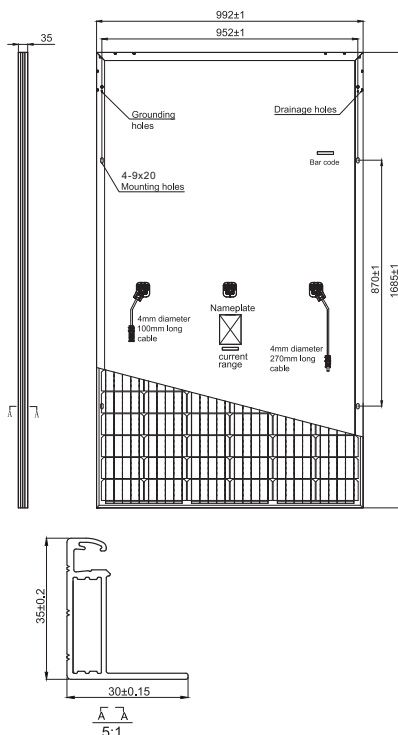
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## LINEAR PERFORMANCE WARRANTY

12 year Product Warranty / 25 year Linear Power Warranty



### Dimension of PV Modules Unit: mm



### Our Partners:

### ELECTRICAL DATA (STC)

Model Number	RSM120-6-295M	RSM120-6-300M	RSM120-6-305M	RSM120-6-310M	RSM120-6-315M
Rated Power in Watts-Pmax(Wp)	295	300	305	310	315
Open Circuit Voltage-Voc(V)	39.7	40.0	40.3	40.6	40.9
Short Circuit Current-Isc(A)	9.64	9.68	9.79	9.86	9.96
Maximum Power Voltage-Vmpp(V)	32.5	32.9	33.1	33.4	33.6
Maximum Power Current-Impp(A)	9.08	9.12	9.22	9.29	9.38
Module Efficiency (%)	17.7	18.0	18.3	18.6	18.9

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

### ELECTRICAL DATA (NOCT)

Model Number	RSM120-6-295M	RSM120-6-300M	RSM120-6-305M	RSM120-6-310M	RSM120-6-315M
Maximum Power-Pmax (Wp)	219.8	223.5	227.2	231.0	234.7
Open Circuit Voltage-Voc (V)	36.9	37.3	37.5	37.9	38.1
Short Circuit Current-Isc (A)	7.84	7.90	7.97	8.03	8.10
Maximum Power Voltage-Vmpp (V)	30.2	30.5	30.7	31.0	31.2
Maximum Power Current-Impp (A)	7.28	7.33	7.40	7.45	7.52

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

### MECHANICAL DATA

Solar cells	Monocrystalline 156.75×78.375mm
Cell configuration	120 cells (6×10+6×10)
Module dimensions	1685×992×35mm
Weight	19kg
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, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm² (12AWG), Positive(+)270mm, Negative(-)100mm
Connector	IP67 MC4 Compatible

### TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	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~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	15A
Limiting Reverse Current	15A

### PACKAGING CONFIGURATION

	40ft	20ft
Number of modules per container	780	360
Number of modules per pallet	30	30
Number of pallets per container	26	12
Packaging box dimensions (LxWxH) in mm	1715×1120×1130	1715×1120×1130
Box gross weight[kg]	615	615

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

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THE POWER OF RISING VALUE