

HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE







ISO9001 ISO14001 OHSAS1800





















* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificate applicable to the products in the region in which the products are to be used.

RISEN ENERGY CO., LTD.

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.

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RSM110-8-530M-550M

110 CELL 530-550Wp

Mono PERC Module Power Output Range

1500VDC 21.0%

Maximum System Voltage Maximum Efficiency

KEY SALIENT FEATURES

Bloomberg TIER 1 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



Excellent wind load 2400Pa & snow load 5400Pa under certain installation method



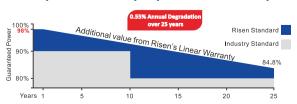
Comprehensive product and system certification



- IEC61215:2016; IEC61730-1/-2:2016;
- ISO 9001:2015 Quality Management System
- ISO 14001:2015 Environmental Management System
- ISO 45001:2018 Occupational Health and Safety Management System

LINEAR PERFORMANCE WARRANTY

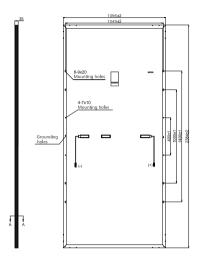
12 year Product Warranty / 25 year Linear Power Warranty



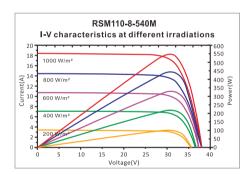
★ Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

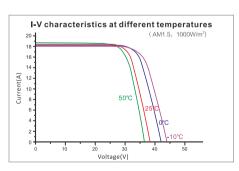


Dimensions of PV Module Unit: mm











ELECTRICAL DATA (STC)

Model Number	RSM110-8-530M	RSM110-8-535M	RSM110-8-540M	RSM110-8-545M	RSM110-8-550M
Rated Power in Watts-Pmax(Wp)	530	535	540	545	550
Open Circuit Voltage-Voc(V)	37.38	37.58	37.78	38.02	38.24
Short Circuit Current-Isc(A)	18.08	18.13	18.18	18.23	18.28
Maximum Power Voltage-Vmpp(V)	31.06	31.26	31.46	31.66	31.86
Maximum Power Current-Impp(A)	17.07	17.12	17.17	17.22	17.27
Module Efficiency (%) ★	20.3	20.5	20.7	20.9	21.0

STC: Irradiance 1000 W/m², 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	RSM110-8-530M	RSM110-8-535M	RSM110-8-540M	RSM110-8-545M	RSM110-8-550M
Maximum Power-Pmax (Wp)	401.5	405.3	409.0	412.8	416.7
Open Circuit Voltage-Voc (V)	34.76	34.95	35.14	35.36	35.56
Short Circuit Current-Isc (A)	14.83	14.87	14.91	14.95	14.99
Maximum Power Voltage-Vmpp (V)	28.82	29.01	29.19	29.38	29.57
Maximum Power Current-Impp (A)	13.93	13.97	14.01	14.05	14.09

NMOT: Irradiance at 800 W/m 2 , Ambient Temperature 20 $^{\circ}$ C, Wind Speed 1 m/s.

MECHANICAL DATA

WECHANICAL DATA			
Solar cells	Monocrystalline		
Cell configuration	110 cells (5×11+5×11)		
Module dimensions	2384×1096×35mm		
Weight	29kg		
Superstrate	High Transmission, Low Iron, Tempered ARC Glass		
Substrate	White Back-sheet		
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color		
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes		
Cables	4.0mm² (12AWG), Positive(+)350mm, Negative(-)350mm (Connector Included)		
Connector	Risen Twinsel PV-SY02, IP68		

TEMPERATURE & MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	620
Number of modules per pallet	31
Number of pallets per container	20
Packaging box dimensions (LxWxH) in mm	2401×1115×1235
Box gross weight[kg]	950

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

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No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document.