TITAN

HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE

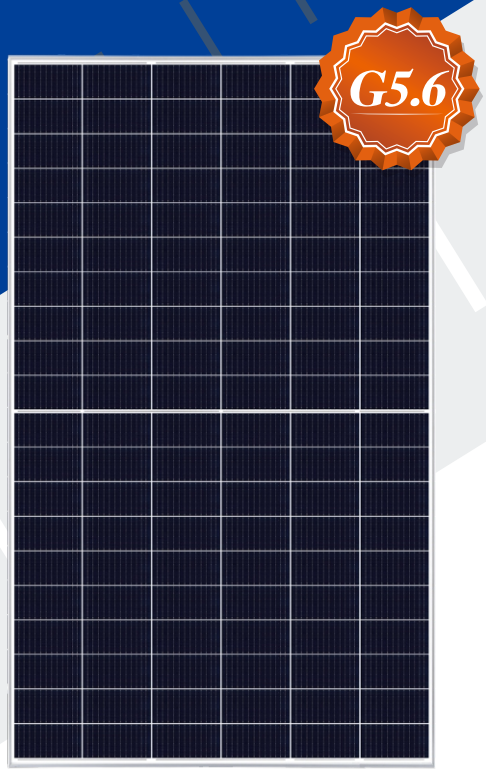
RSM120-8-580M-600M

120 CELL
Mono PERC Module

580-600Wp
Power Output Range

1500VDC
Maximum System Voltage

21.2%
Maximum Efficiency



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
- 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

ISO9001
ISO14001
OHSAS18001
IEC TS 62941

★ As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates 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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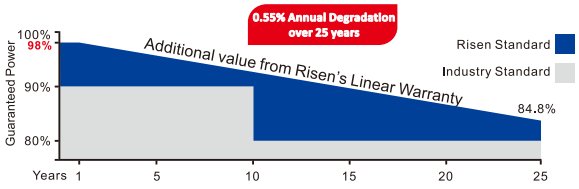
risen
solar technology

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

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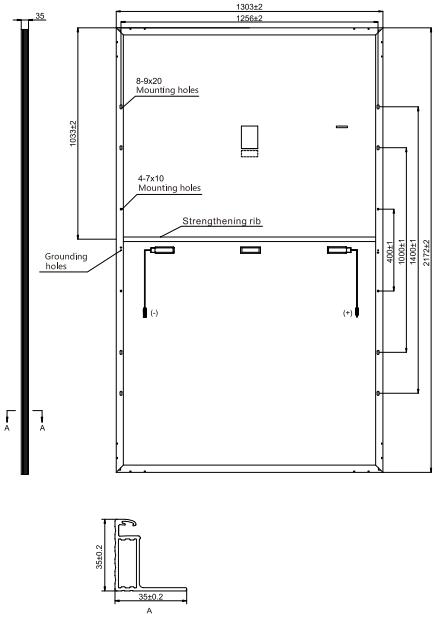
Dimensions of PV Module

Unit: mm



ELECTRICAL DATA (STC)

Model Number	RSM120-8-580M	RSM120-8-585M	RSM120-8-590M	RSM120-8-595M	RSM120-8-600M
Rated Power in Watts-Pmax(Wp)	**580**	**585**	**590**	**595**	**600**
Open Circuit Voltage-Voc(V)	40.80	41.00	41.20	41.40	41.60
Short Circuit Current-Isc(A)	18.11	18.16	18.21	18.26	18.32
Maximum Power Voltage-Vmpp(V)	33.94	34.12	34.32	34.50	34.70
Maximum Power Current-Impp(A)	17.10	17.15	17.20	17.25	17.30
Module Efficiency (%) ★	20.5	20.7	20.8	21.0	21.2

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)

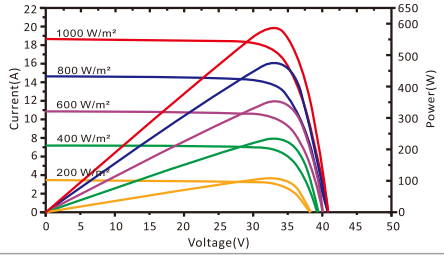
Model Number	RSM120-8-580M	RSM120-8-585M	RSM120-8-590M	RSM120-8-595M	RSM120-8-600M
Maximum Power-Pmax (Wp)	439.5	443.1	447.0	450.7	454.6
Open Circuit Voltage-Voc (V)	37.94	38.13	38.32	38.50	38.69
Short Circuit Current-Isc (A)	14.85	14.89	14.93	14.97	15.02
Maximum Power Voltage-Vmpp (V)	31.50	31.66	31.85	32.02	32.20
Maximum Power Current-Impp (A)	13.95	13.99	14.04	14.08	14.12

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

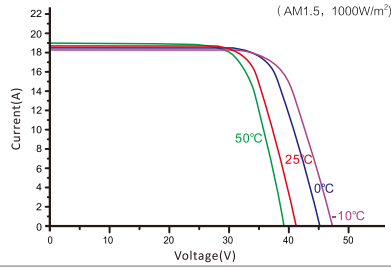
MECHANICAL DATA

Solar cells	Monocrystalline
Cell configuration	120 cells (6×10+6×10)
Module dimensions	2172×1303×35mm
Weight	31.5±0.5kg
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

RSM120-8-590M
I-V characteristics at different irradiations



I-V characteristics at different temperatures



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

Our Partners:

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	527
Number of modules per pallet	31
Number of pallets per container	17
Packaging box dimensions (LxWxH) in mm	1350×1145×2310
Box gross weight[kg]	1020

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.

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