

# SZSSTH

# RSM120H-210M-12BB 580-600W

## High Efficiency Low LID Mono PERC with Half-cut Technology

**Positive power tolerance** (0 ~ +5W) guaranteed

**High module conversion efficiency** (up to 21.21%)

**Slower power degradation enabled by Low LID Mono PERC technology:**

first year <2.5%, 0.56% year 2-25

**Solid PID resistance** ensured by solar cell process optimization and careful module BOM selection

**Reduced resistive** loss with lower operating current

**Higher energy yield** with lower operating temperature

**Reduced hot spot risk** with optimized electrical design and lower operating current

### Complete System and Product Certifications

IEC 61215, IEC 61730

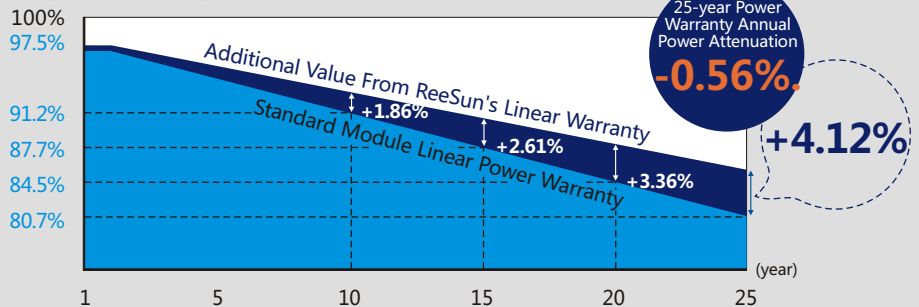
ISO 9001:2015: ISO Quality Management System

ISO 14001:2015: ISO Environment Management System

ISO 45001:2018 Occupational Health and Safety

\* Specifications subject to technical changes and tests.  
ReeSuna solar reserves the right of interpretation.

### 12-year Warranty for Materials and Processing; 25-year Warranty for Extra Linear Power Output.



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Shenzhen SZSSTH Company is a high-tech PV enterprise dedicated to research, development, production, sales & after sales service, mainly engaged in crystalline silicon solar cells, solar panels, photovoltaic systems, PV applications. Our product specifications are compatible with 158-210 size battery cells, adopting German TUV quality control standards, and realizing the whole process quality traceability from auxiliary materials to finished components.



# RSM120H-210M-12BB

# 580-600W

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## Electrical Characteristics

## Electrical Characteristics

Test uncertainty for Pmax: ±3%

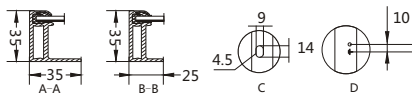
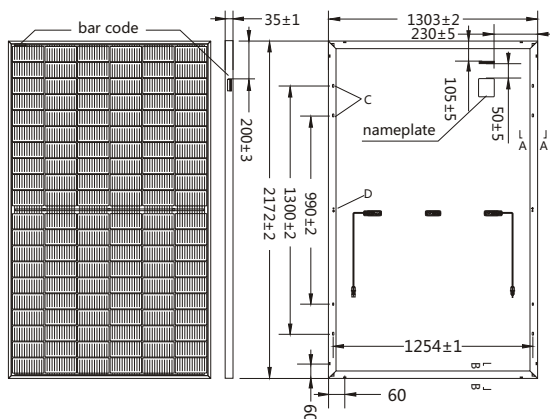
Model Number	580W		585W		590W		595W		600W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition										
Maximum Power (Pmax/W)	580	439.8	585	443.4	590	447.3	595	450.9	600	454.9
Voltage at Maximum Power (Vmp/V)	33.94	31.53	34.12	31.69	34.32	31.89	34.50	32.02	34.70	32.22
Current at Maximum Power (Imp/A)	17.10	13.95	17.15	13.99	17.20	14.04	17.25	14.08	17.30	14.12
Open Circuit Voltage (Voc/V)	40.80	37.94	41.00	38.13	41.20	38.32	41.40	38.50	41.60	38.69
Short Circuit Current (Isc/A)	18.11	14.85	18.16	14.89	18.21	14.93	18.26	14.97	18.32	15.02
Module Efficiency (%)	20.50		20.68		20.85		21.03		21.21	

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/S

## Design (mm)

## Mechanical & Operating Parameters



Cell Orientation	120 (6×20)
Junction Box	IP68, three diodes
Output Cable	4mm <sup>2</sup> , 300mm in length, length can be customized
Glass	Single glass 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	31kg
Dimension	2172×1303×35mm
Packaging	31pcs/pallet 620pcs/40'HC
Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0~+5 W
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	20A
Nominal Operating Cell Temperature	45±2°C
Safety Class	Class II
Fire Rating	Class C

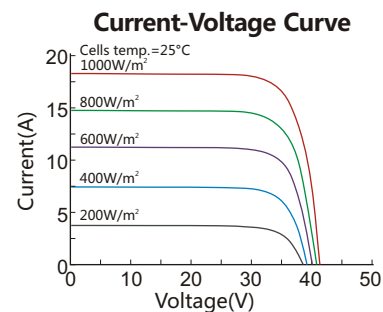
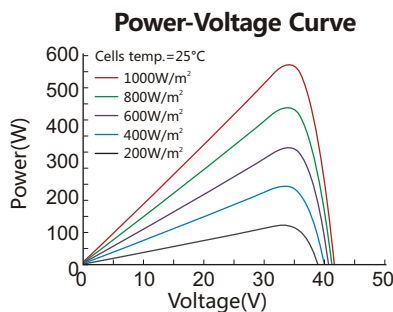
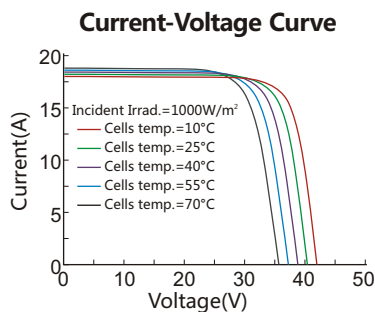
## Temperature Ratings (STC)

## Mechanical Loading

Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.350%/°C

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

## I-V Curve (RSM120H-210M-590W)



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