

# SZSSTH

# RSM110H-210M-12BB 535-555W

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

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

**High module conversion efficiency** (up to 21.24%)

**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

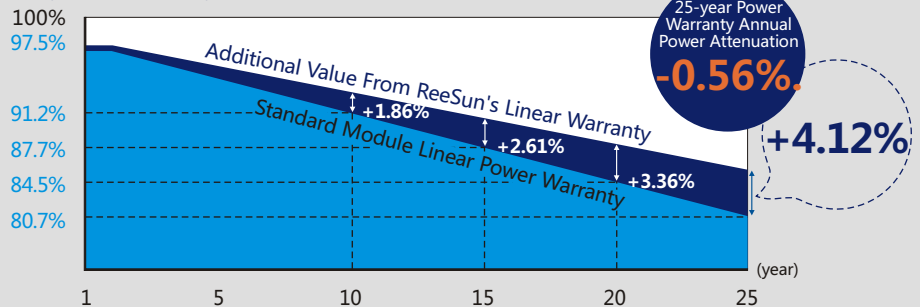
ISO 9001:2015: ISO Quality Management System

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.



Shenzhen ShengShi TianHe Electronic Technology Co.,Ltd  
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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.



# RSM110H-210M-12BB

# 535-555W

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## Electrical Characteristics

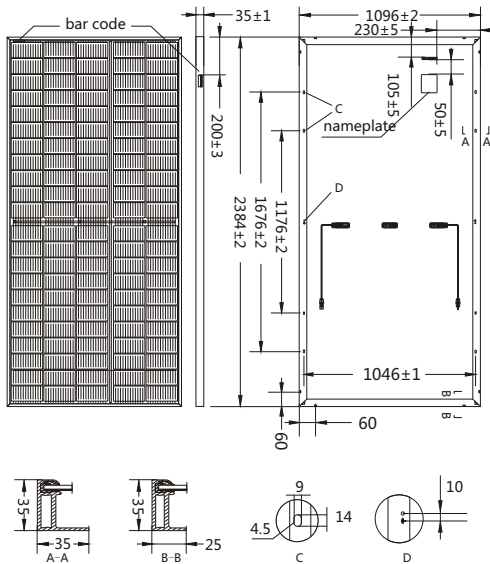
Model Number	535W		540W		545W		550W		555W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition										
Maximum Power (Pmax/W)	535	405	540	409	540	409	550	417	555	420
Voltage at Maximum Power (Vmp/V)	31.00	28.80	31.20	29.00	31.20	29.00	31.60	29.30	31.80	29.50
Current at Maximum Power (Imp/A)	17.28	14.06	17.33	14.10	17.33	14.10	17.40	14.19	17.45	14.23
Open Circuit Voltage (Voc/V)	37.30	35.10	37.50	35.30	37.50	35.30	37.90	35.70	38.10	35.90
Short Circuit Current (Isc/A)	18.36	14.80	18.41	14.84	18.41	14.84	18.52	14.92	18.56	14.96
Module Efficiency (%)	20.48		20.67		20.86		21.05		21.24	

Test uncertainty for Pmax: ±3%

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	110 (2×5×11)
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	28.5kg
Dimension	2384×1096×35mm
Packaging	31pcs/pallet 682pcs/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)

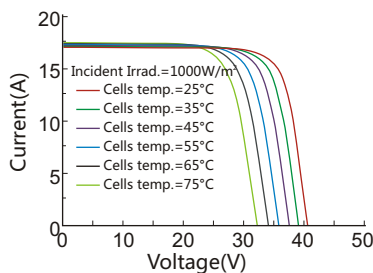
Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.350%/°C

## Mechanical Loading

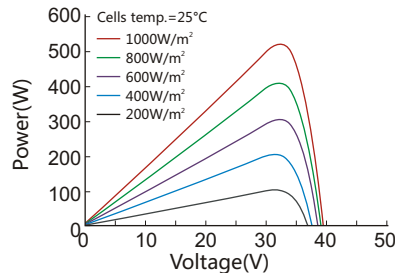
Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

## I-V Curve (RSM110H-210M-550W)

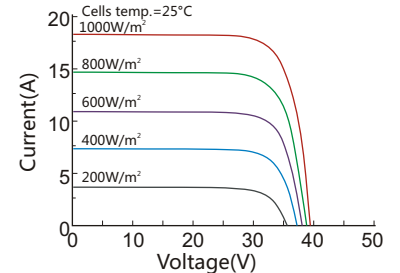
### Current-Voltage Curve



### Power-Voltage Curve



### Current-Voltage Curve



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