



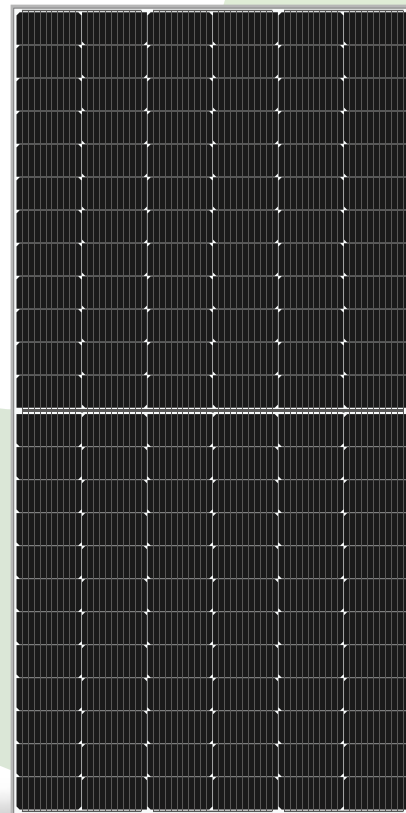


# SAS550M-144H

Half-Cell High Efficiency PV Module

-  **Optimal Design Combination**  
182mm+MBB+Half-cut, higher power output
-  **Super Performance & Stable Returns**  
Low current & low hot spot, to ensure module operation optimally
-  **Diversified Application Scenarios**  
Strong weather-resistance, suitable for various roof installation
-  **Lower LCOE**  
Lower BOS, less installation area



## Comprehensive Products and System Certificates

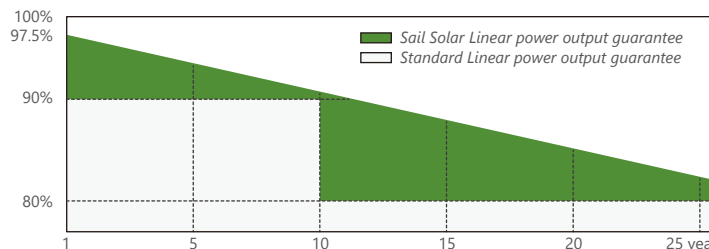
IEC 61215 / IEC 61730 / CE / INMETRO  
 ISO 9001: 2015/Quality management system  
 ISO 14001: 2015/Standards for environmental management system  
 OHSAS 18001: 2007/International standards for occupational health & safety

# 525~550W

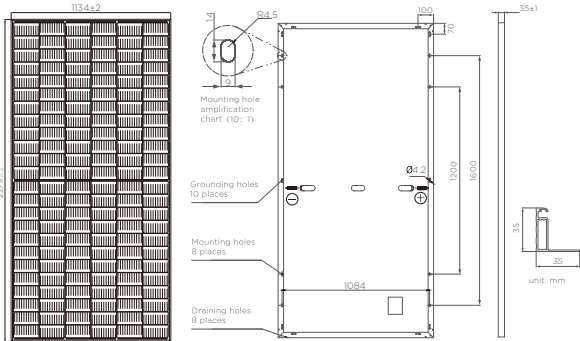
Max  
Module  
Efficiency  
-  
**21.3%**

## Quality Guarantee

**12-year** Material & technology warranty  
**25-year** Linear power output warranty



## Design (mm)



<b>Cell Orientation</b>	144 (6x24)
<b>Junction Box</b>	IP68, three diodes
<b>Output Cable</b>	4mm <sup>2</sup> , 300mm in length, length can be customized
<b>Glass</b>	Single glass 3.2mm coated tempered glass
<b>Frame</b>	Anodized aluminum alloy frame
<b>Weight:</b>	28.6kg±3%
<b>Dimension</b>	2279x1134x35mm
<b>Packaging</b>	31pcs per pallet 620pcs per 40'ft Container

<b>Operational Temperature</b>	-40°C~+85°C
<b>Power Output Tolerance</b>	0~+5W
<b>Voc &amp; Isc Tolerance</b>	±3%
<b>Max. System Voltage</b>	DC1500V(IEC/UL)
<b>Max. Series Fuse Rating</b>	25A
<b>NOCT</b>	45±2°C
<b>Safety Class</b>	II
<b>Fire Rating</b>	UL type 1 or 2
<b>Max. Static Load(Front)</b>	5400Pa
<b>Max. Static Load(Back)</b>	2400Pa

\*Units: mm \*Tolerance: ±2mm

## Electrical Characteristics

Model Number	SAS525M- 144H		SAS530M- 144H		SAS535M- 144H		SAS540M- 144H		SAS545M- 144H		SAS550M- 144H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
<b>Maximum Power (Pmax/W)</b>	525	397	530	401	535	405	540	408	545	412	550	416
<b>Open Circuit Voltage (Voc/V)</b>	49.15	46.05	49.30	46.18	49.45	46.31	49.60	46.43	49.75	46.55	49.90	46.68
<b>Short Circuit Current (Isc/A)</b>	13.65	10.97	13.72	11.01	13.79	11.05	13.86	11.09	13.93	11.13	14.00	11.17
<b>Voltage at Maximum Power (Vmp/V)</b>	41.15	38.36	41.31	38.57	41.47	38.78	41.64	38.99	41.80	39.20	41.96	39.43
<b>Current at Maximum Power (Imp/A)</b>	12.76	10.35	12.83	10.39	12.90	10.43	12.97	10.47	13.04	10.51	13.11	10.55
<b>Module Efficiency(%)</b>	20.3		20.5		20.7		20.9		21.1		21.3	
<b>Temperature Coefficient of Isc</b>							+0.045%/°C					
<b>Temperature Coefficient of Voc</b>							-0.275%/°C					
<b>Temperature Coefficient of Pmax</b>							-0.350%/°C					

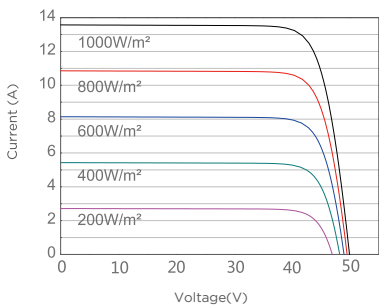
\* STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Spectra at AM1.5

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

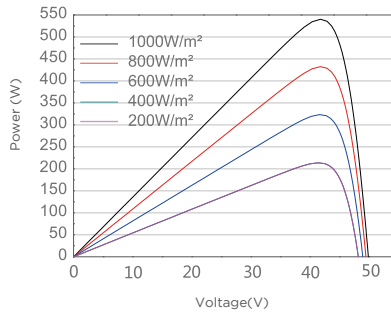
\*Test uncertainty for Pmax: ±3%

## I-V Curve

Current-Voltage Curve(SAS540M- 144H )



Current-Voltage Curve(SAS540M- 144H )



Current-Voltage Curve(SAS540M- 144H )

