

REESUN144H-182M Mono Crystal Single-Glass 530-555W

High Efficiency
Low LID Mono PERC with
Half-cut Technology

Better anti-PID performance

Guaranteed power tolerance(0~+5W)

High module conversion efficiency(up to 21.48 %)

Lower current

higher power generation

Lower risk of hot spot

Low LID Mono PERC technology: first year < 2.0%, 0.55% year 2-25

Comprehensive System and Product Certifications

IEC 61215, IEC 61730

ISO 9001:2015: ISO Quality Management System

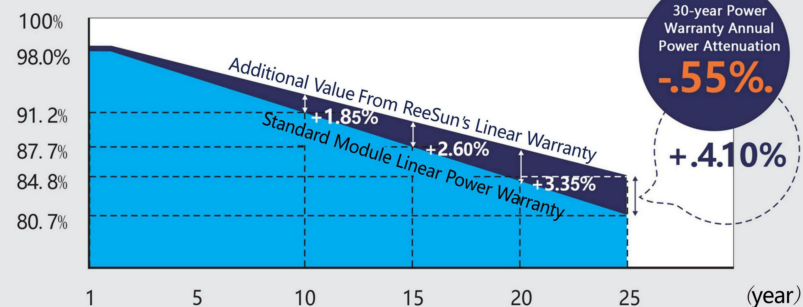
ISO 14001:2015: ISO Environmental Management System

ISO 45001:2018 Occupational Health and Safety

* Specifications subject to technical changes and tests.

ReeSun solar reserves the right of interpretation.

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



JIANGSU REESUN SOLAR CO.,LTD.

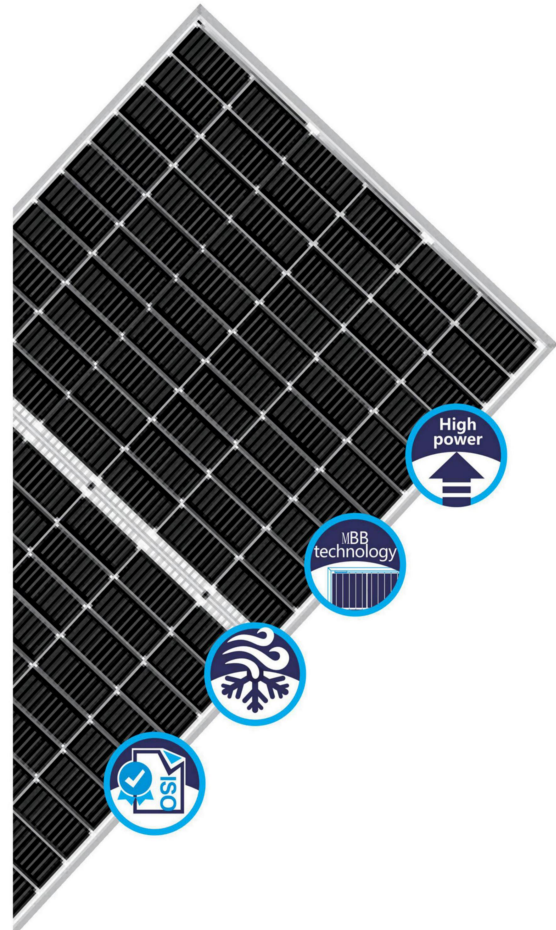
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Jiangsu ReeSun Solar Co., Ltd. is a high-tech PV enterprise dedicated to research, development, production, sales & after sales service, mainly engaged in crystalline silicon solar cells, solar modules, photovoltaic systems PV applications. Our product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



REESUN144H-182M

530-555W

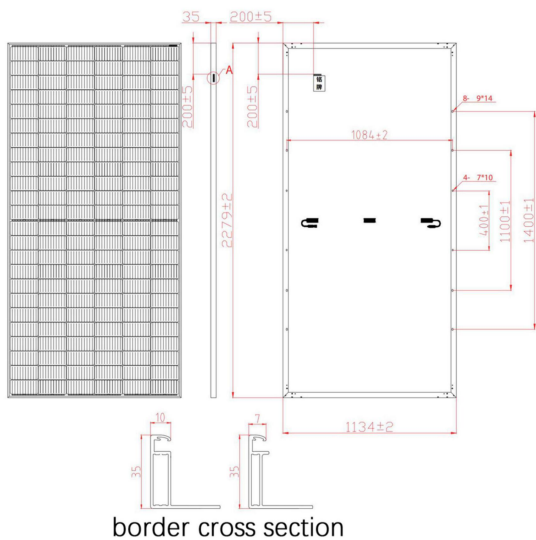
Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	530W		535W		540W		545W		550W		555W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	530	401	535	405	540	408	545	412	550	416	555	420
Voltage at Maximum Power (Vmp/V)	40.74	38.57	40.88	38.78	41.01	38.99	41.15	39.20	41.28	39.43	41.42	39.66
Current at Maximum Power (Imp/A)	13.01	10.39	13.09	10.43	13.17	10.47	13.25	10.51	13.33	10.55	13.41	10.59
Open Circuit Voltage (Voc/V)	49.26	46.18	49.4	46.31	49.53	46.43	49.67	46.55	49.80	46.68	49.94	46.85
Short Circuit Current (Isc/A)	13.69	11.01	13.77	11.05	13.85	11.09	13.93	11.13	14.01	11.17	14.09	11.21
Module Efficiency (%)	20.51		20.70		20.89		21.09		21.28		21.48	

STC (Standard Testing Conditions): Irradiance 1000W/m² Cell Temperature 25°C, AM1.5
 NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/S

Design(mm)



Mechanical & Operating parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 300mm in length, length can be customized
Glass	Single glass 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	27kg±3%
Dimension	2279×1134×35mm
Packaging	31pcs/pallet 620pcs/40'HC
Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0~+5 W
Voc and Isc Tolerance	±4%/±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
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 曲线 (REESUN144H-182M-550W)

