

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

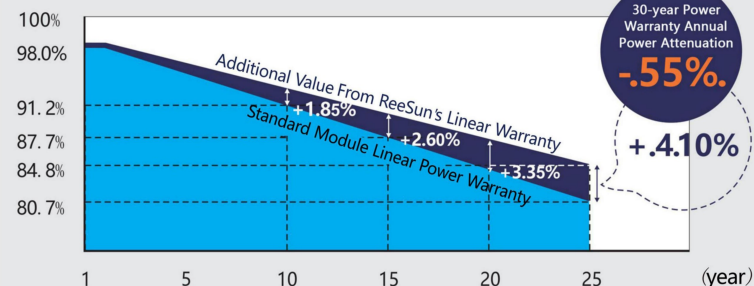
ISO 14001:2015: ISO Environmental Management System

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.**



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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

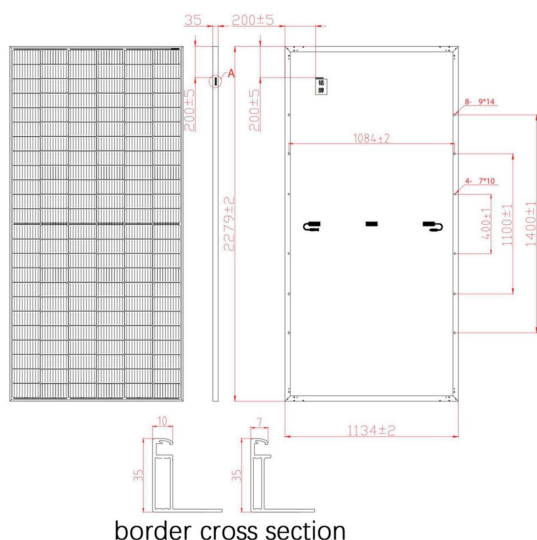
Electrical Characteristics

Test uncertainty for Pmax: ±3%

Model Number	530W		535W		540W		545W		550W		555W	
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)

