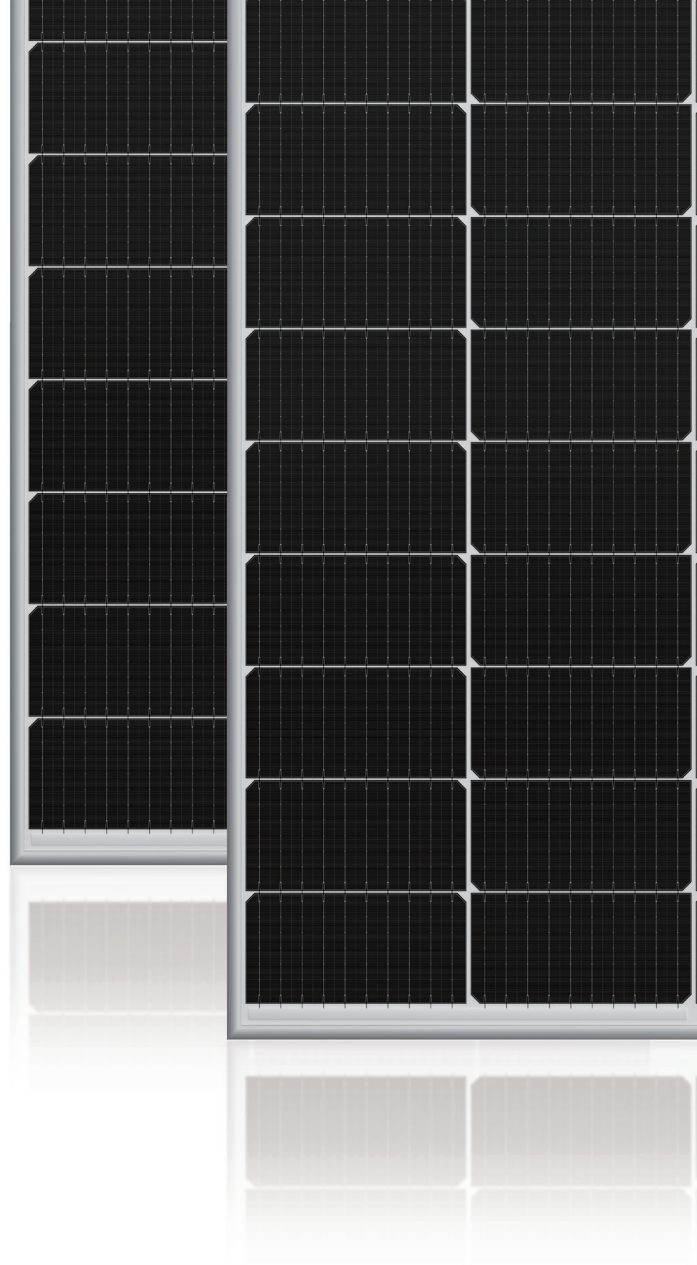




# N-TYPE MONOCRYSTALLINE DOUBLE GLASS 520-540W REESUN132HBN-182M

High efficiency and low LID  
TOPCon monocrystalline technology  
HALF-CELL technology

- Excellent Anti-PID performance
- Guaranteed power tolerance (0 ~+5W)
- Excellent wind and snow loads up to 5400Pa under specific installation methods
- Lower current, higher power generation, lower risk of hot spots
- Excellent low irradiation performance
- Higher component conversion efficiency (up to 22.74%)
- 12-year product quality warranty, 30-year linear output power warranty

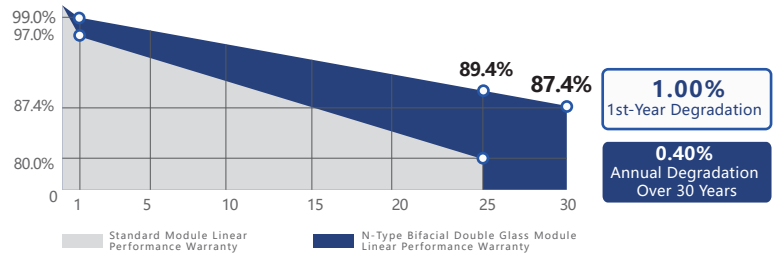


## Comprehensive Product And System Certification

IEC 61215, IEC 61730  
ISO 9001:2015: ISO Quality Management System Certification  
ISO 14001:2015: ISO Environmental Management System Certification  
ISO 45001:2018 Occupational Health and Safety Management System Certification



## Linear Power Output Warranty



\*Reesun Solar reserves the right to interpret technical changes and test specifications.

# REESUN132HBN-182M 520-540W

## Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	520W		525W		530W		535W		540W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing environment	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power [Pmax/W]	520	390	525	394	530	398	535	401	540	405
Maximum power voltage [Vmp/V]	40.28	37.76	40.61	38.11	40.90	38.38	41.22	38.64	41.51	38.91
Maximum power current [Imp/A]	12.91	10.33	12.93	10.34	12.96	10.37	12.98	10.38	13.01	10.41
Open circuit voltage [Voc/V]	46.86	45.11	46.93	45.49	47.13	45.73	47.26	45.96	47.34	46.29
Short circuit current [Isc/A]	13.51	10.81	13.54	10.83	13.60	10.88	13.64	10.91	13.68	10.94
Component efficiency [%]	21.90		22.11		22.32		22.53		22.74	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m<sup>2</sup>, atmospheric quality AM1.5, module temperature 25 °C  
Nominal operating battery temperature (NOCT): irradiance 800W/m<sup>2</sup>, ambient temperature 20 °C, atmospheric quality AM1.5, wind speed 1m/s

## Rear Electrical Performance Parameters

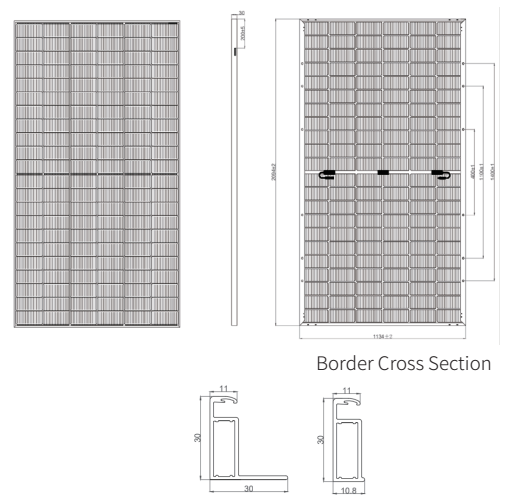
Maximum power test tolerance : ±3%

Component model		520W	525W	530W	535W	540W
5%	Maximum power [Pmax/W]	546	551	557	562	567
	Component efficiency [%]	22.9	23.2	23.4	23.6	23.8
15%	Maximum power [Pmax/W]	598	604	610	615	621
	Component efficiency [%]	25.1	25.4	25.7	25.9	26.1
25%	Maximum power [Pmax/W]	650	656	663	669	675
	Component efficiency [%]	27.3	27.6	27.9	28.1	28.4

## Mechanical And Operating Parameters

Number of battery cells	132(6×22)
Junction box	IP68 Three diodes
Output cable	4mm <sup>2</sup> , length 300mm, Customizable length
Glass	2.0mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	29kg±3%
Size	2094×1134×30mm
Packing	36pcs per pallet 792pcs per 40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	±4%/±3%
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	25A
Nominal operating battery temperature	45±2°C
Safety level	Class II
Fire rating	Class A

Dimensional drawings (mm)



## Temperature Coefficient(STC)

## Mechanical Load

Short circuit current temperature coefficient of frame section	+0.048%/°C	Front maximum static load	5400Pa
Open circuit voltage temperature coefficient	-0.270%/°C	Maximum back static load	2400Pa
Maximum power temperature coefficient	-0.350%/°C	Hail test	25mm hail, impact at 23 m/s

## I-V Curve (REESUN132HBN-182M-535W)

