



N-TYPE MONOCRYSTALLINE SINGLE GLASS 520-545W REESUN132HN-182M

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

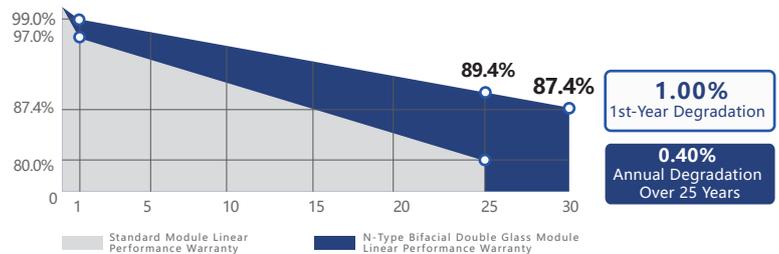
- Excellent Anti-PID performance
- Guaranteed power tolerance (0 ~+5W)
- Excellent wind and snow loads up to 5400Pa under specific installation methods
- Lower current, higher power generation, lower risk of hot spots
- Excellent low irradiation performance
- Higher component conversion efficiency (up to 22.95%)
- 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.

REESUN132HN-182M 520-545W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

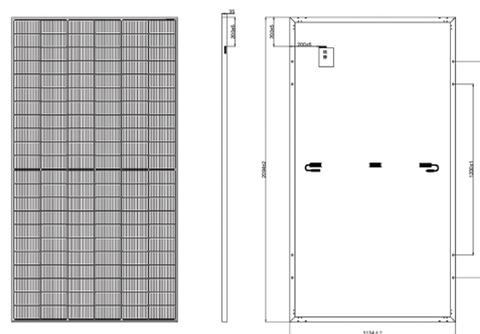
Component model	520W		525W		530W		535W		540W		545W	
	STC	NOCT										
Testing environment	STC	NOCT										
Maximum power [Pmax/W]	520	390	525	393	530	397	535	401	540	404	545	408
Maximum power voltage [Vmp/V]	40.28	37.76	40.63	38.10	40.90	38.34	41.22	38.64	41.57	38.88	41.84	39.12
Maximum power current [Imp/A]	12.91	10.33	12.92	10.34	12.96	10.37	12.98	10.38	13.00	10.40	13.03	10.43
Open circuit voltage [Voc/V]	46.86	45.11	46.92	45.47	47.12	45.67	47.25	45.96	47.38	46.32	47.52	46.69
Short circuit current [Isc/A]	13.51	10.81	13.53	10.82	13.60	10.88	13.64	10.91	13.68	10.94	13.72	10.98
Component efficiency [%]	21.90		22.11		22.32		22.53		22.74		22.95	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 ° C
Nominal operating battery temperature (NOCT): irradiance 800W/m², ambient temperature 20 ° C, atmospheric quality AM1.5, wind speed 1m/s

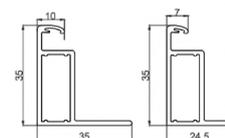
Mechanical And Operating Parameters

Number of battery cells	132(6×22)
Junction box	IP68 Three diodes
Output cable	4mm ² , length 300mm, Customizable length
Glass	3.2mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	26kg±3%
Size	2094×1134×35mm
Packing	31pcs per pallet 682pcs 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 C

Dimensional drawings (mm)



Border Cross Section



Temperature Coefficient(STC)

Mechanical Load

Short circuit current temperature coefficient of frame section	+0.050%/°C	Front maximum static load	5400Pa
Open circuit voltage temperature coefficient	-0.263%/°C	Maximum back static load	2400Pa
Maximum power temperature coefficient	-0.343%/°C	Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN132HN-182M-500W)

