



N-TYPE MONOCRYSTALLINE SINGLE GLASS 465-495W REESUN120HN-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 22.88%)
- 12-year product quality warranty, 30-year linear output power warranty

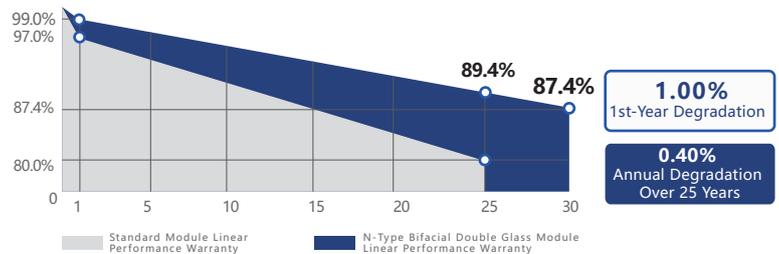


Comprehensive Product And System Certification

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.

REESUN120HN-182M 465-495W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

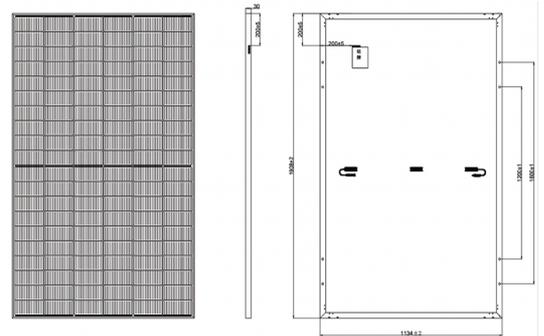
Component model	465W		470W		475W		480W		485W		490W		495W	
	STC	NOCT												
Testing environment	STC	NOCT												
Maximum power [Pmax/W]	465	350	470	353	475	357	480	361	485	365	490	369	495	373
Maximum power voltage [Vmp/V]	35.15	33.12	35.32	33.21	35.48	33.40	35.64	33.59	35.81	33.78	35.98	33.97	36.16	34.16
Maximum power current [Imp/A]	13.23	10.57	13.31	10.63	13.39	10.69	13.47	10.75	13.55	10.81	13.63	10.87	13.70	10.93
Open circuit voltage [Voc/V]	41.62	38.87	41.83	38.99	42.03	39.19	42.24	39.43	42.44	39.62	42.64	39.81	42.84	39.99
Short circuit current [Isc/A]	13.97	11.26	14.05	11.32	14.13	11.39	14.21	11.45	14.29	11.51	14.37	11.57	14.45	11.63
Component efficiency [%]	21.49		21.72		21.95		22.18		22.42		22.65		22.88	

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

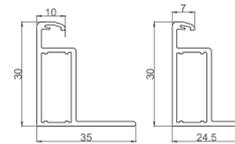
Mechanical And Operating Parameters

Number of battery cells	120(6×20)
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	24kg±3%
Size	1908×1134×30mm
Packing	36pcs per pallet 864pcs 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 (REESUN120HN-182M-475W)

