



N-TYPE MONOCRYSTALLINE DOUBLE GLASS 475-495W REESUN120HBN-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

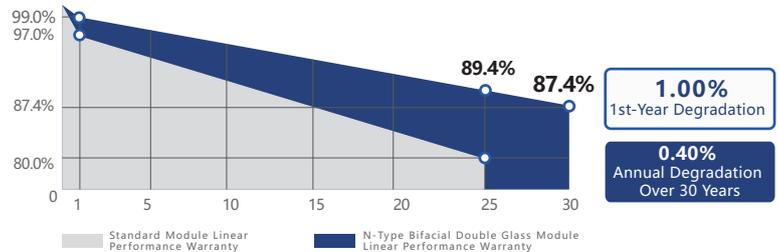


Comprehensive Product And System Certification

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.

REESUN120HBN-182M 475-495W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	475W		480W		485W		490W		495W	
	STC	NOCT								
Testing environment	STC	NOCT								
Maximum power [Pmax/W]	475	356	480	360	485	364	490	368	495	371
Maximum power voltage [Vmp/V]	35.77	34.45	37.07	34.75	37.37	35.01	37.67	35.30	37.99	35.59
Maximum power current [Imp/A]	12.92	10.34	12.95	10.36	12.98	10.39	13.01	10.41	13.03	10.43
Open circuit voltage [Voc/V]	42.60	41.16	42.78	41.40	42.90	41.68	43.08	41.92	43.20	42.27
Short circuit current [Isc/A]	13.52	10.82	13.58	10.87	13.63	10.91	13.69	10.96	13.72	10.98
Component efficiency [%]	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

Rear Electrical Performance Parameters

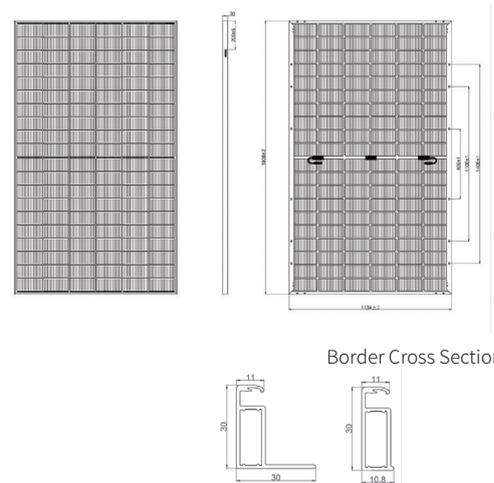
Maximum power test tolerance : ±3%

Component model		475W	480W	485W	490W	495W
5%	Maximum power [Pmax/W]	499	504	509	515	520
	Component efficiency [%]	23.0	23.2	23.5	23.7	24.0
15%	Maximum power [Pmax/W]	546	552	558	564	569
	Component efficiency [%]	25.2	25.5	25.7	26.0	26.3
25%	Maximum power [Pmax/W]	594	600	606	613	619
	Component efficiency [%]	27.4	27.7	28.0	28.3	28.5

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	2.0mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	26.9kg±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 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 (REESUN108HBN-182M-490W)

