








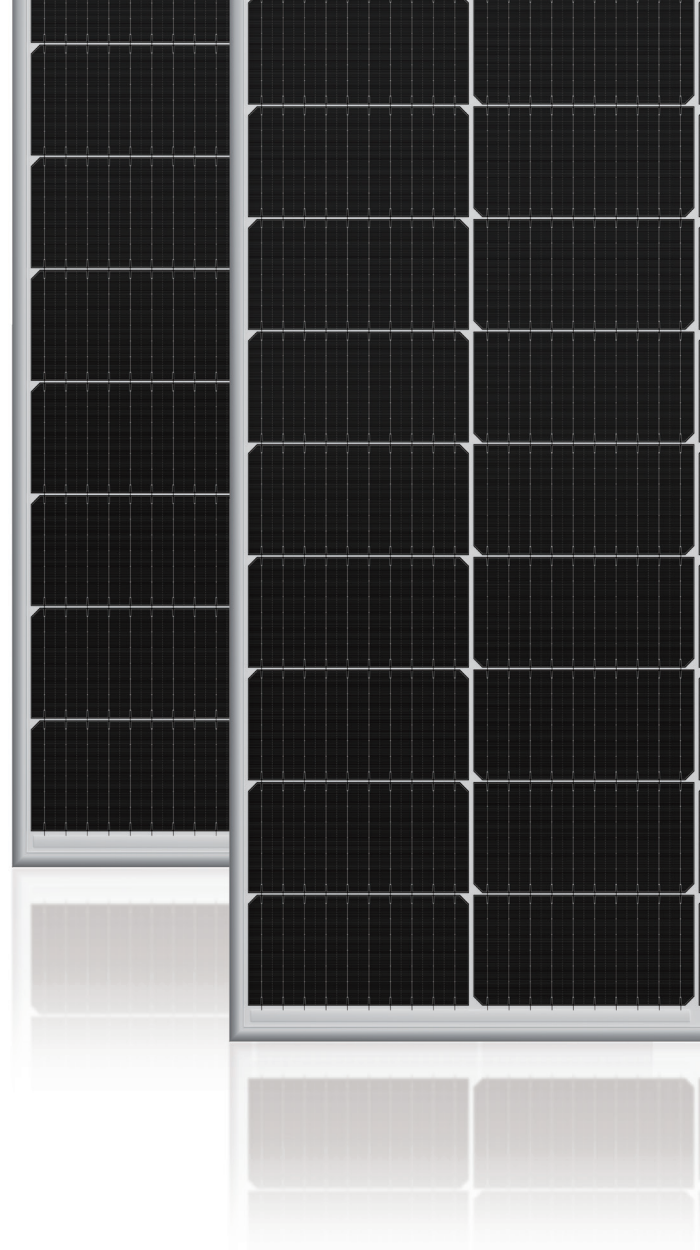


MONOCRYSTALLINE DOUBLE GLASS 435-460W

REESUN120HB-182M

High efficiency and low LID
PERC 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 21.26%)
-  12-year product quality warranty, 30-year linear output power warranty



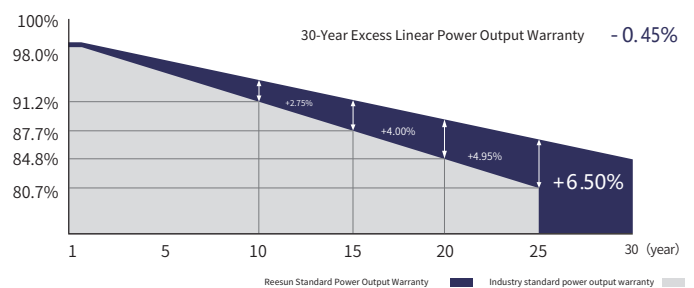
Comprehensive Product And System Certification

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



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

REESUN120HB-182M 435-460W

Electrical Performance Parameters

Maximum power test tolerance : ±3%

Component model	435W		440W		445W		450W		455W		460W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing environment												
Maximum power [Pmax/W]	435	326	440	330	445	334	450	338	455	341	460	345
Maximum power voltage [Vmp/V]	34.18	32.09	34.35	32.20	34.53	32.37	34.70	32.53	34.87	32.69	35.04	32.84
Maximum power current [Imp/A]	12.71	10.17	12.81	10.25	12.89	10.31	12.97	10.38	13.05	10.44	13.13	10.50
Open circuit voltage [Voc/V]	40.82	37.46	40.99	37.66	41.16	37.84	41.33	38.05	41.50	38.25	41.67	38.45
Short circuit current [Isc/A]	13.61	10.89	13.69	10.95	13.78	11.02	13.86	11.09	13.94	11.15	14.02	11.22
Component efficiency [%]	20.10		20.34		20.57		20.80		21.03		21.26	

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

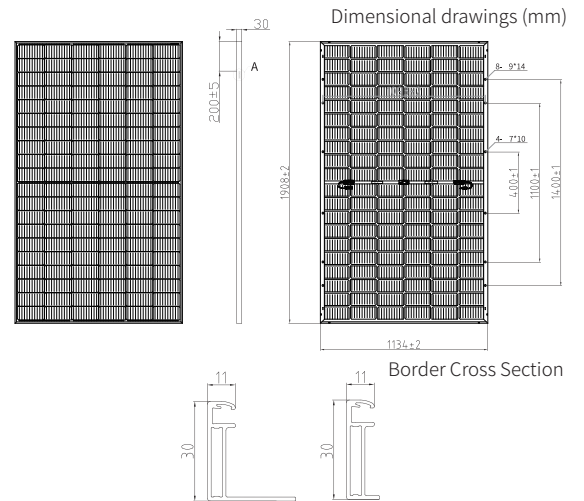
Back Electrical Performance Parameters

Maximum power test tolerance : ±3%

	Component model	435W	440W	445W	450W	455W	460W
		5%	Maximum power [Pmax/W]	456	462	467	472
	Component efficiency [%]	21.1	21.3	21.5	21.8	22.0	22.3
15%	Maximum power [Pmax/W]	500	506	511	517	523	529
	Component efficiency [%]	23.1	23.3	23.6	23.9	24.1	24.4
25%	Maximum power [Pmax/W]	543	550	556	562	568	575
	Component efficiency [%]	25.1	25.4	25.7	25.9	26.2	26.5

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



Temperature Coefficient(STC)

Mechanical Load

Short circuit current temperature coefficient of frame section	+0.045%/°C	Front maximum static load	5400Pa
Open circuit voltage temperature coefficient	-0.261%/°C	Maximum back static load	2400Pa
Maximum power temperature coefficient	-0.331%/°C	Hail test	25mm hail, impact at 23 m/s

I-V Curve (REESUN120HB-182M-450W)

