



N-TYPE MONOCRYSTALLINE DOUBLE GLASS 565-585W REESUN144HBN-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 22.58%)
-  12-year product quality warranty, 30-year linear output power warranty

Comprehensive Product And System Certification

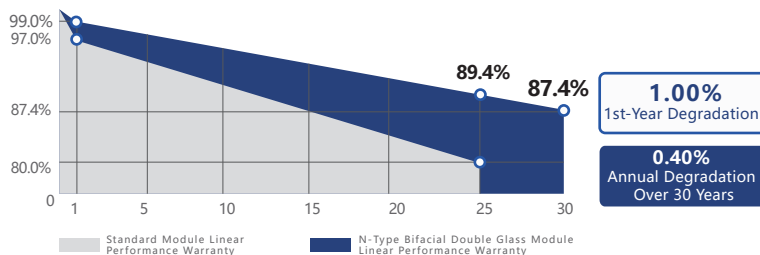
IEC 61215, IEC 61730

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.



REESUN144HBN-182M 565-585W

Electrical Performance Parameters

Maximum power test tolerance : $\pm 3\%$

Component model	565W		570W		575W		580W		585W	
Testing environment	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power [Pmax/W]	565	421	570	425	575	429	580	432	585	436
Maximum power voltage [Vmp/V]	42.65	39.76	42.83	39.91	42.98	40.06	43.13	40.12	43.27	40.23
Maximum power current [Imp/A]	13.25	10.59	13.31	10.65	13.38	10.71	13.45	10.77	13.52	10.84
Open circuit voltage [Voc/V]	50.35	46.54	50.58	46.77	50.81	47.05	51.03	47.18	51.25	47.41
Short circuit current [Isc/A]	14.03	11.31	14.09	11.36	14.15	11.40	14.21	11.45	14.27	11.50
Component efficiency [%]	21.80		22.00		22.19		22.38		22.58	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m^2 , atmospheric quality AM1.5, module temperature 25°C

Nominal operating battery temperature (NOCT): irradiance 800W/m^2 , ambient temperature 20°C , atmospheric quality AM1.5, wind speed 1m/s

Rear Electrical Performance Parameters

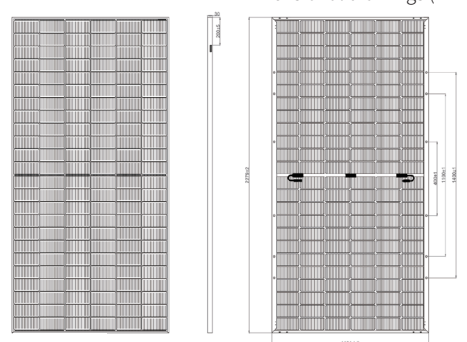
Maximum power test tolerance : $\pm 3\%$

	Component model	565W	570W	575W	580W	585W
5%	Maximum power [Pmax/W]	593	599	604	609	614
	Component efficiency [%]	22.9	23.1	23.3	23.5	23.7
15%	Maximum power [Pmax/W]	650	656	661	667	673
	Component efficiency [%]	25.1	25.3	25.5	25.8	26.0
25%	Maximum power [Pmax/W]	706	713	719	725	731
	Component efficiency [%]	27.3	27.5	27.8	28.0	28.2

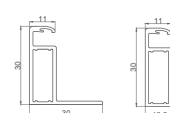
Mechanical And Operating Parameters

Number of battery cells	144(6×24)
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	32kg $\pm 3\%$
Size	2279×1134×30mm
Packing	36pcs per pallet 720pcs per 40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	$\pm 4\%/\pm 3\%$
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	25A
Nominal operating battery temperature	45 $\pm 2^\circ\text{C}$
Safety level	Class II
Fire rating	Class A

Dimensional drawings (mm)



Border Cross Section



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 (REESUN144HBN-182M-580W)

