

575-600W

REESUN144HBN-182M

MONOCRYSTALLINE 
DOUBLE GLASS

 **23.23%** Conversion efficiency

W 0~+5w Guaranteed power tolerance



Better power generation capacity



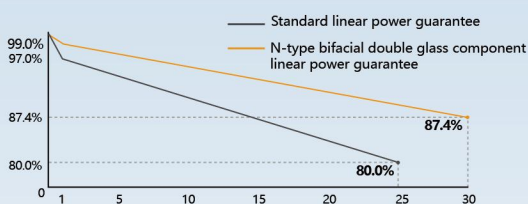
Lower LID attenuation



Better weak light response



Excellent temperature coefficient characteristics



12-year product quality guarantee



30-year linear output power guarantee

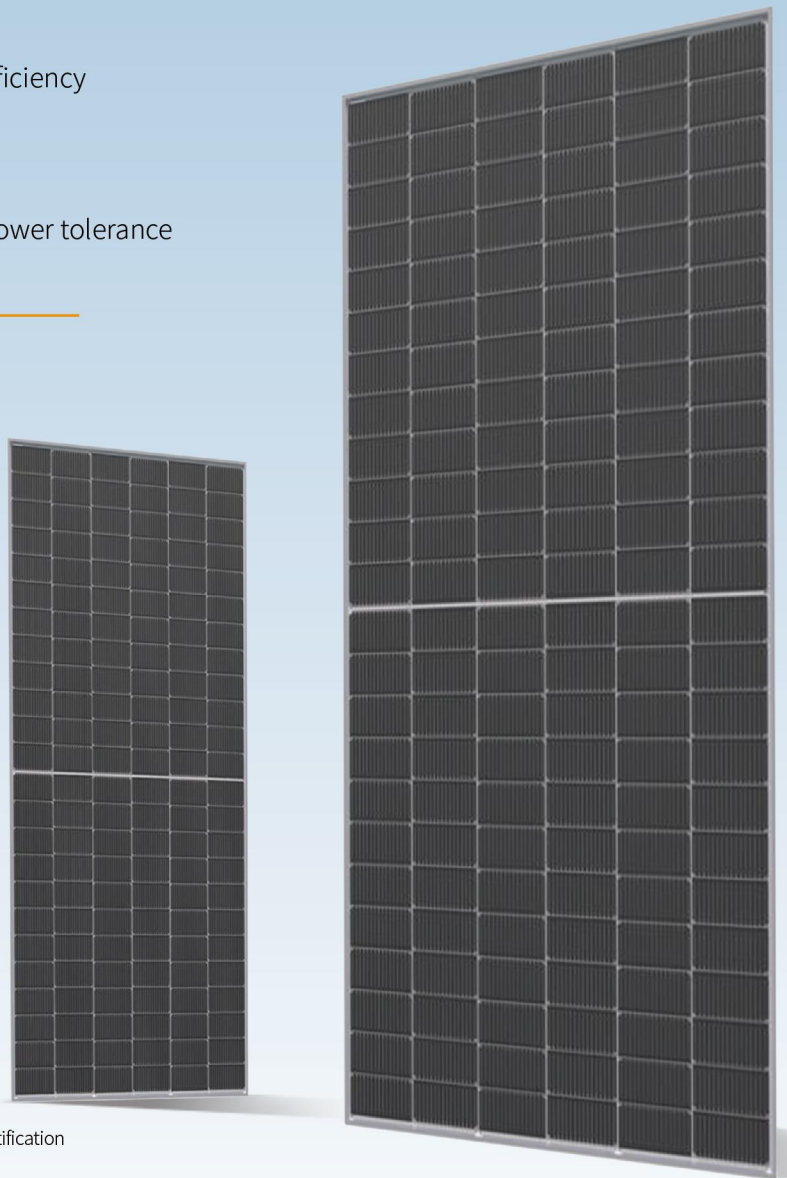
Comprehensive Product And System Certification

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



REESUN144HBN-182M 575-600W

Front-side Electrical Performance Parameters Maximum power test tolerance: $\pm 3\%$

Component model	575W		580W		585W		590W		595W		600W	
Testing environment	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power [Pmax/W]	575	429	580	432	585	436	590	440	595	444	600	448
Maximum power voltage [Vmp/V]	43.56	40.06	43.75	40.12	43.94	40.30	44.19	40.48	44.44	40.66	44.61	40.82
Maximum power current [Imp/A]	13.20	10.71	13.26	10.77	13.31	10.82	13.35	10.87	13.39	10.92	13.45	10.98
Open circuit voltage [Voc/V]	51.75	48.12	51.90	48.32	52.10	48.55	52.20	48.66	52.35	48.77	52.50	48.90
Short circuit current [Isc/A]	13.95	11.16	14.01	11.21	14.27	11.41	14.49	11.46	14.71	11.51	14.85	11.62
Component efficiency [%]	22.25		22.44		22.64		22.83		23.02		23.23	

MAXIMUM POWER TEST COMMON STANDARD TEST ENVIRONMENT (STC) IRRADIANCE $1000\text{W}/\text{m}^2$, ATMOSPHERIC QUALITY AM1.5, MODULE TEMPERATURE 25°C
 NOMINAL OPERATING BATTERY TEMPERATURE (NOCT): IRRADIANCE $800\text{W}/\text{m}^2$, AMBIENT TEMPERATURE 20°C , ATMOSPHERIC QUALITY AM1.5, WIND SPEED $1\text{M}/\text{S}$

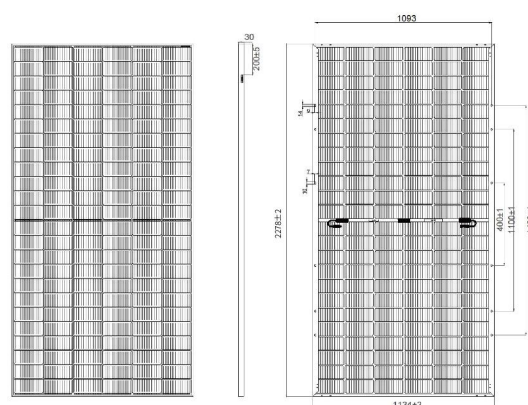
Back-side Electrical Performance Parameters Maximum power test tolerance: $\pm 3\%$

	Component model	575W	580W	585W	590W	595W	600W
5%	Maximum power [Pmax/W]	604	609	614	619	623	630
	Component efficiency [%]	23.38	23.57	23.76	23.96	24.11	24.38
15%	Maximum power [Pmax/W]	661	667	673	679	684	690
	Component efficiency [%]	25.58	25.82	26.05	26.28	26.47	26.71
25%	Maximum power [Pmax/W]	719	725	731	738	744	750
	Component efficiency [%]	27.83	28.06	28.29	28.56	28.80	29.03

Mechanical And Operating Parameters

Number of battery cells	144(6×24)
Junction box	IP68, with 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 $\pm 3\%$
Dimensions	2278x1134x30mm
Packing	36psc/Tray 720psc/40'HC
Operating temperature	$-40^\circ\text{C} \sim +85^\circ\text{C}$
Power tolerance	0~+5 W
Current/voltage tolerance	$\pm 4\%/\pm 3\%$
Maximum system voltage	DC1500V (IEC)
Maximum fuse - rated current	25A
Nominal operating battery temperature	$45\pm 2^\circ\text{C}$
Safety class	Class II
Fire rating	Class A

Drawing Dimensions (mm)



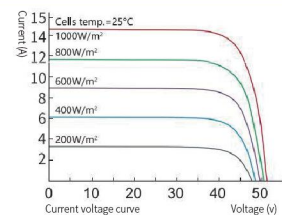
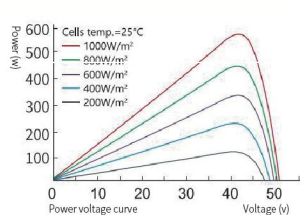
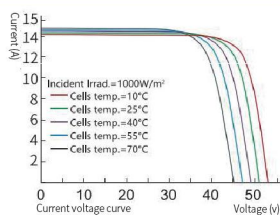
Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front - side maximum static load	5400Pa
Back - side maximum static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

I-V CURVE(REESUN144HBN-182M-580W)



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