






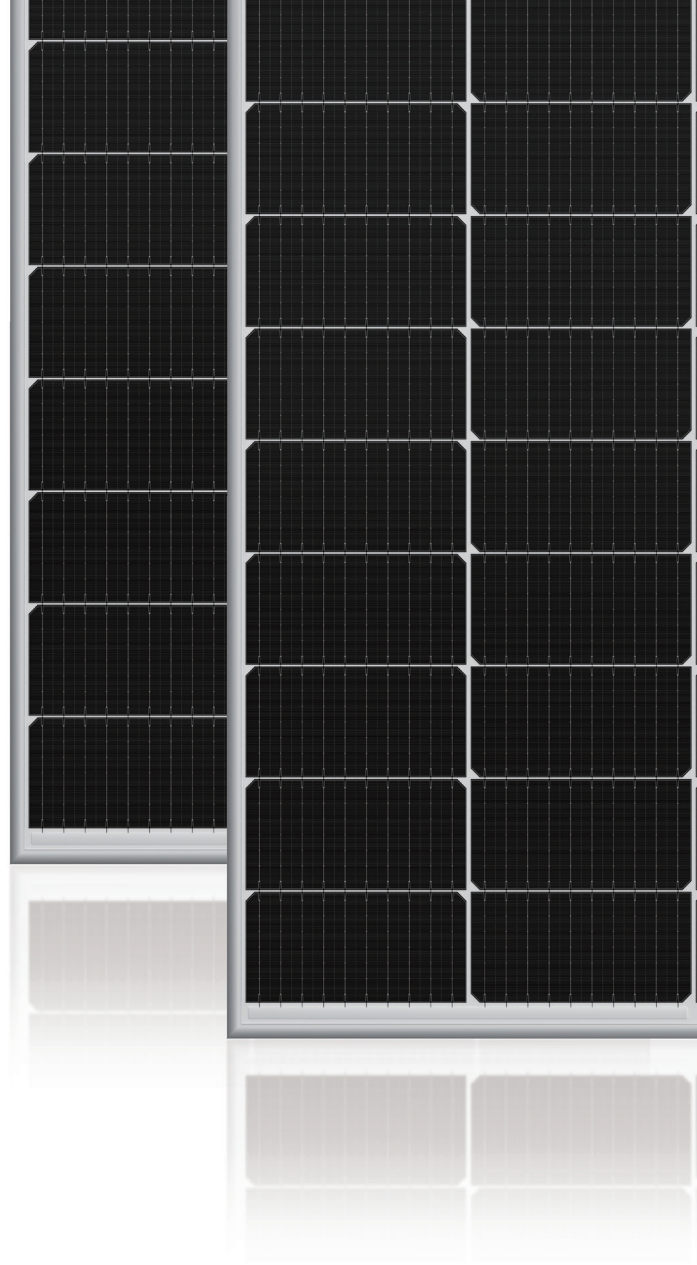




# N-TYPE MONOCRYSTALLINE SINGLE GLASS 560-595W REESUN144HN-182M

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 23.02%)
-  12-year product quality warranty, 30-year linear output power warranty

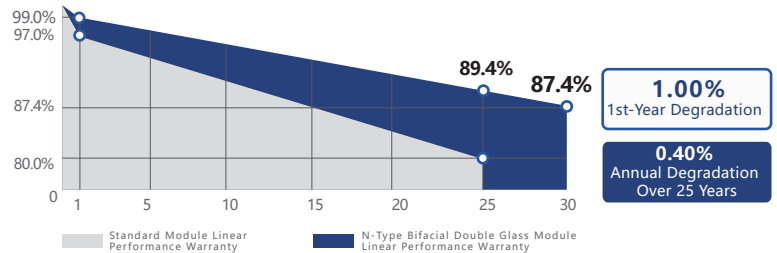


## Comprehensive Product And System Certification

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.

# REESUN144HN-182M 560-595W

## Electrical Performance Parameters

Maximum power test tolerance : ±3%

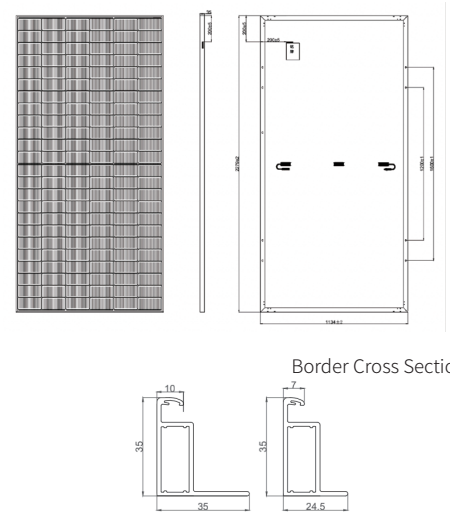
Component model	560W		565W		570W		575W		580W		585W		590W		595W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing environment	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power [Pmax/W]	560	420	565	423	570	427	575	431	580	435	585	438	590	442	595	446
Maximum power voltage [Vmp/V]	44.70	41.92	44.85	41.97	45.00	42.12	45.15	42.30	45.30	42.44	45.45	42.53	45.60	42.67	45.74	42.85
Maximum power current [Imp/A]	12.53	10.02	12.60	10.08	12.67	10.14	12.74	10.19	12.81	10.25	12.88	10.30	12.95	10.36	13.01	10.41
Open circuit voltage [Voc/V]	51.40	48.15	51.55	48.24	51.65	48.35	51.80	48.53	51.95	48.67	52.10	48.75	52.25	48.89	52.40	49.08
Short circuit current [Isc/A]	13.26	10.61	13.33	10.66	13.40	10.72	13.47	10.78	13.54	10.83	13.61	10.89	13.68	10.94	13.75	11.00
Component efficiency [%]	21.67		21.86		22.06		22.25		22.44		22.64		22.83		23.02	

Maximum power test Common Standard Test Environment (STC) irradiance 1000W/m<sup>2</sup>, atmospheric quality AM1.5, module temperature 25 ° C  
Nominal operating battery temperature (NOCT): irradiance 800W/m<sup>2</sup>, ambient temperature 20 ° C, atmospheric quality AM1.5, wind speed 1m/s

## Mechanical And Operating Parameters

Number of battery cells	144(6×24)
Junction box	IP68 Three diodes
Output cable	4mm <sup>2</sup> , length 300mm, Customizable length
Glass	3.2mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	27kg±3%
Size	2279×1134×35mm
Packing	31pcs per pallet 620pcs 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)



## Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.050%/°C
Open circuit voltage temperature coefficient	-0.263%/°C
Maximum power temperature coefficient	-0.343%/°C

## Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

## I-V Curve (REESUN144HN-182M-580W)

