560W PERC Half-Cell Module

SN-535~560W Series

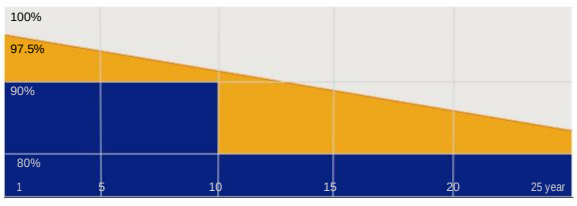
INTRODUCTION

Assembled with high-efficiency PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

- Higher output power
- Lower temperature coefficient
- Less shading effect
- Better mechanical loading tolerance

SUPERIOR WARRANTY

- 12-year product warranty
- 25-year linear power output warranty

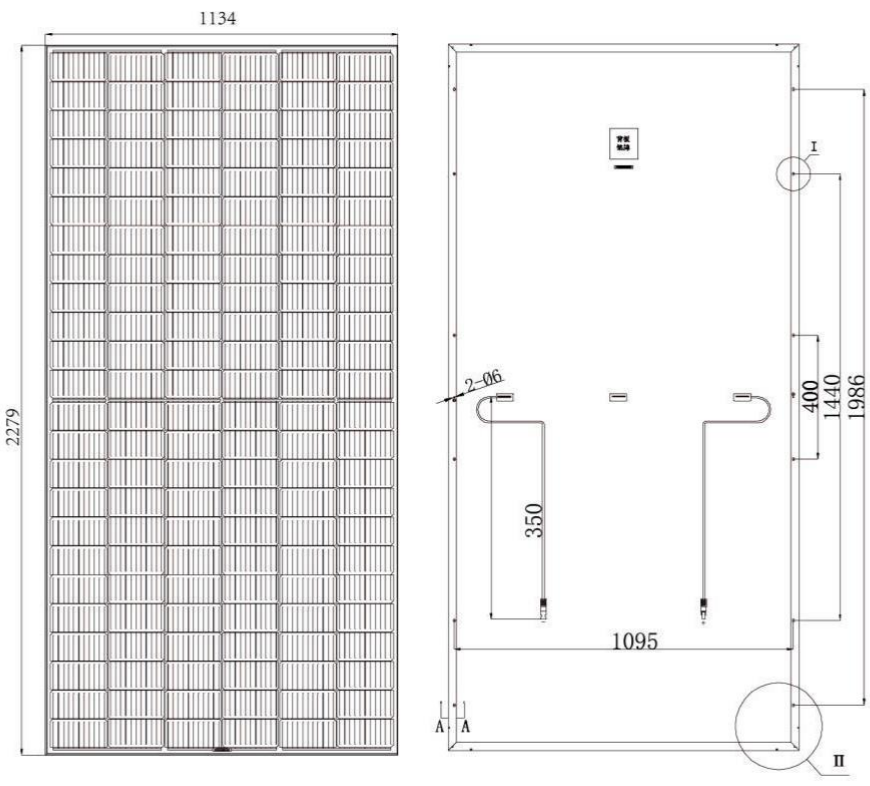


Linear Power Warranty Industry Warranty

PRODUCT PERFORMANCE ADVANTAGE

- Excellent space utilization performance, increasing power density effectively and reducing costs
- Reducing the temperature of the solar module hot spot battery above 20°C , to ensure system stability and reliability
- Larger Size of Light Receiving Area, Higher Solar Panel Power, Lower System Cost
- Lower temperature coefficient, zero depth reflection increasing
- More Busbars, the Less of Broken and cracking , As the Narrowed Cell Bus Bar Width,the Light Receiving Area and Power are Increased too
- Reducing the loss of current mismatch and resistance

MECHANICAL DIAGRAMS



MECHANICAL PARAMETERS

Solar Cells	11BB Monocrystalline 182×91mm
Cell Orientation	144 (6×24)
Junction Box	IP68
Output Cable	4mm2(IEC)/12AWG(UL),900mm
Glass	3.2mm coated tempered glass
Weight	29kg
Dimension	2279x1134x35mm
Packaging	30pcs per pallet, 5 pallets/20'GP, 10 pallets/40'HC

OPERATING PARAMETERS

Operating Temperature	-40℃~ +85℃
Power Tolerance	0~+5W
Voc and Isc Tolerance	± 3%
Max System Voltage	1500V (IEC)
Maximum Series Fuse Fuse	20A
NOCT	45±2℃
Safety Class	Class II

ELECTRICAL CHARACTERISTICS

TYPE	SN-M535W/PRSN-M540W/PR		SN-M545W/PRSN-M550W/PR		SN-M555W/PRSN-M560W/PR	
Maximum Power(Pmax/W)	535	540	545	550	555	560
Open Circuit Voltage(Voc/V)	49.60	49.80	50.00	50.02	50.40	50.60
Short Circuit Current(Isc/A)	13.69	13.75	13.81	13.87	13.93	13.99
Maximum Power Voltage(Vmp/V)	41.40	41.60	41.80	42.00	42.20	42.40
Maximum Power Current(Imp/A)	12.93	12.99	13.04	13.10	13.16	13.21
Module Efficiency(%)	20.69%	20.89%	21.08%	21.27%	21.47%	21.66%

Standard Testing Condition: Irradiance 1000W/m2 , Cell Temperature 25℃, Air Mass 1.5

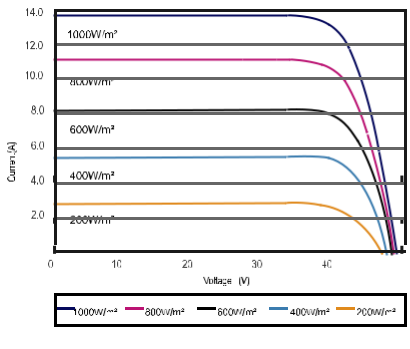
TEMPERATURE COEFFICIENT (STC)

Temperature Coefficient of Isc	+0.05%/℃
Temperature Coefficient of Voc	-0.32%/℃
Temperature Coefficient of Pmax	-0.39%/℃

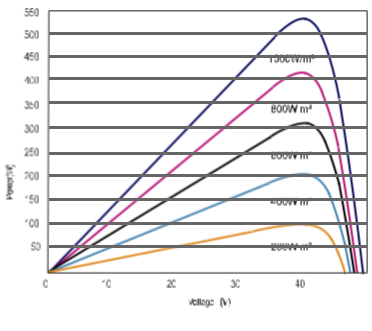
MECHANICAL LOADING

Front side Maximum Static Load (Wind or Snow)	5400Pa
Rear side Maximum Static Load (Wind)	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

I-V CURVES OF PV MODULE(540W)



P-V CURVES OF PV MODULE(540W)



* Note : Due to continuous technical innovation, R&D and mprovement, technical data above mentioned may be of modification accordingly. Shine Solar have the sole right to make such modification at anytime without further notice.