

SPR-N144-SAM

N-TYPE DOUBLE GLASS BIFACIAL MODULE

600w

Maximum Power Output

23.23%

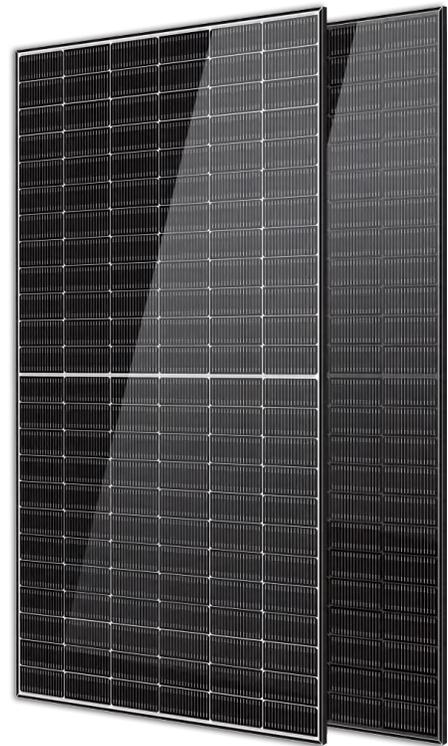
Maximum Module Efficiency

80%

Bifaciality

0~5w

Pmax Tolerance



Lower LCOE

N-TOPCon bifacial technology: lower degradation, higher bifaciality, ≥30 year service life and lower BOS



Lower Temperature Coefficient

lower temperature coefficient and higher power generation under high-temperature conditions.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation.



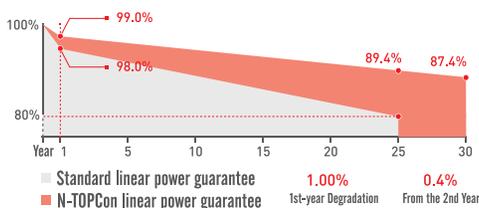
Better Low Light Performance

Higher power output even under low-light environments like on cloudy or foggy days.



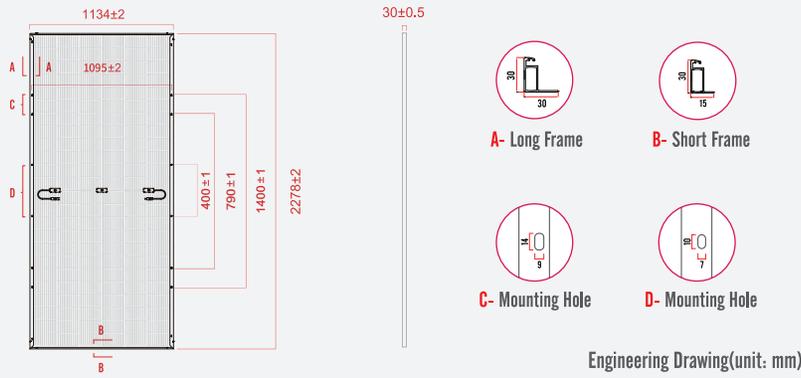
Mechanical Load Enhanced

Certified to withstand: 5400 Pa front side max static test load and 2400 Pa rear side max static test load.

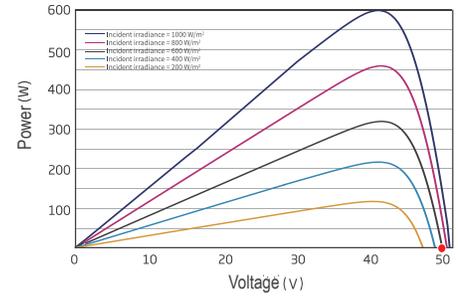
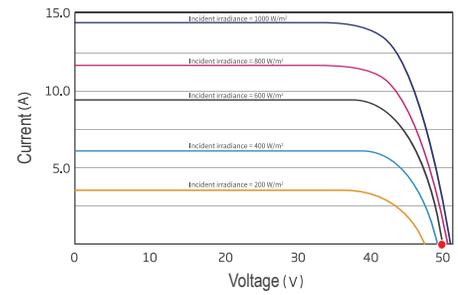


12 Years Product Material & Workmanship
30 Years Linear Performance Warranty





Characteristic Curves (SPR-N144-SAM-600w)



MECHANICAL PROPERTIES

Cell Size	182mm*183mm series	Front Glass/Back Glass	Heat-strengthened Glass 2mm/2mm
Number of Cells	144 (2*72)	Frame	Anodized Aluminium Alloy
Module Dimension	2278mm×1134mm×30mm	Junction Box	IP68
Weight	31.2kg	Connector	MC4 Compatible Connector
Length of Cable	TUV 1×4.0mm ² (+): 300mm,(-):200mm(Or Customized Length)		

SPECIFICATIONS

Testing Condition	Front Side					
	575	580	585	590	595	600
Maximum Power (Pmax/W)	575	580	585	590	595	600
Peak Power Voltage (Vmp/V)	44.07	44.24	44.42	44.60	44.77	44.94
Peak Power Current (Imp/A)	13.05	13.11	13.17	13.23	13.29	13.35
Open Circuit Voltage (Voc/V)	51.54	51.68	51.82	51.96	52.10	52.24
Short Circuit Current (Isc/A)	13.84	13.90	13.96	14.02	14.08	14.14
Module Efficiency(%)	22.26%	22.45%	22.65%	22.84%	23.03%	23.23%

The above data is for reference only, the actual data is subject to the actual test

*STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM1.5

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

Irradiance	Front Side						
	575	580	585	590	595	600	
5%	Maximum Power (Pmax)	604	609	614	620	625	630
	Module Efficiency STC (%)	23.38%	23.57%	23.78%	23.98%	24.18%	24.39%
15%	Maximum Power (Pmax)	661	667	673	679	684	690
	Module Efficiency STC (%)	25.60%	25.82%	26.04%	26.27%	26.49%	26.49%
25%	Maximum Power (Pmax)	719	725	731	738	744	750
	Module Efficiency STC (%)	27.83%	28.07%	28.31%	28.55%	28.79%	29.03%

OPERATING PROPERTIES

TEMPERATURE COEFFICIENT

PACKAGING CONFIGURATION

Operating Temperature (°C)	-40°C~+85°C	Temperature Coefficient of Pmax	-0.29%/°C	Packing Type	40'HQ Container
Maximum System Voltage (V)	DC1500V (IEC)	Temperature Coefficient of Voc	-0.25%/°C	Pcs/Pallet	36 pcs
Maximum Series Fuse Rating (A)	30	Temperature Coefficient of Isc	+0.045%/°C	Pallet/Container	20 pallets
Pmax Tolerance (W)	0~+5W	Nominal Operating Cell Temperature (NOCT)	45±2°C	Pcs/Container	720 pcs
Bifaciality	80±5%				

*Bifaciality=Pmaxrear (STC)/Pmaxfront (STC)