

MonoPERC Module

HalfCut 10BB

525 WP - 555 WP

Bifacial (Glass to Glass)



Better Performance
in low light



Efficiency
up to 21.49%



Bifacial
Technology



Reduced LCOE
(Levelized Cost of Electricity)

INDUSTRY LEADING PROTECTION



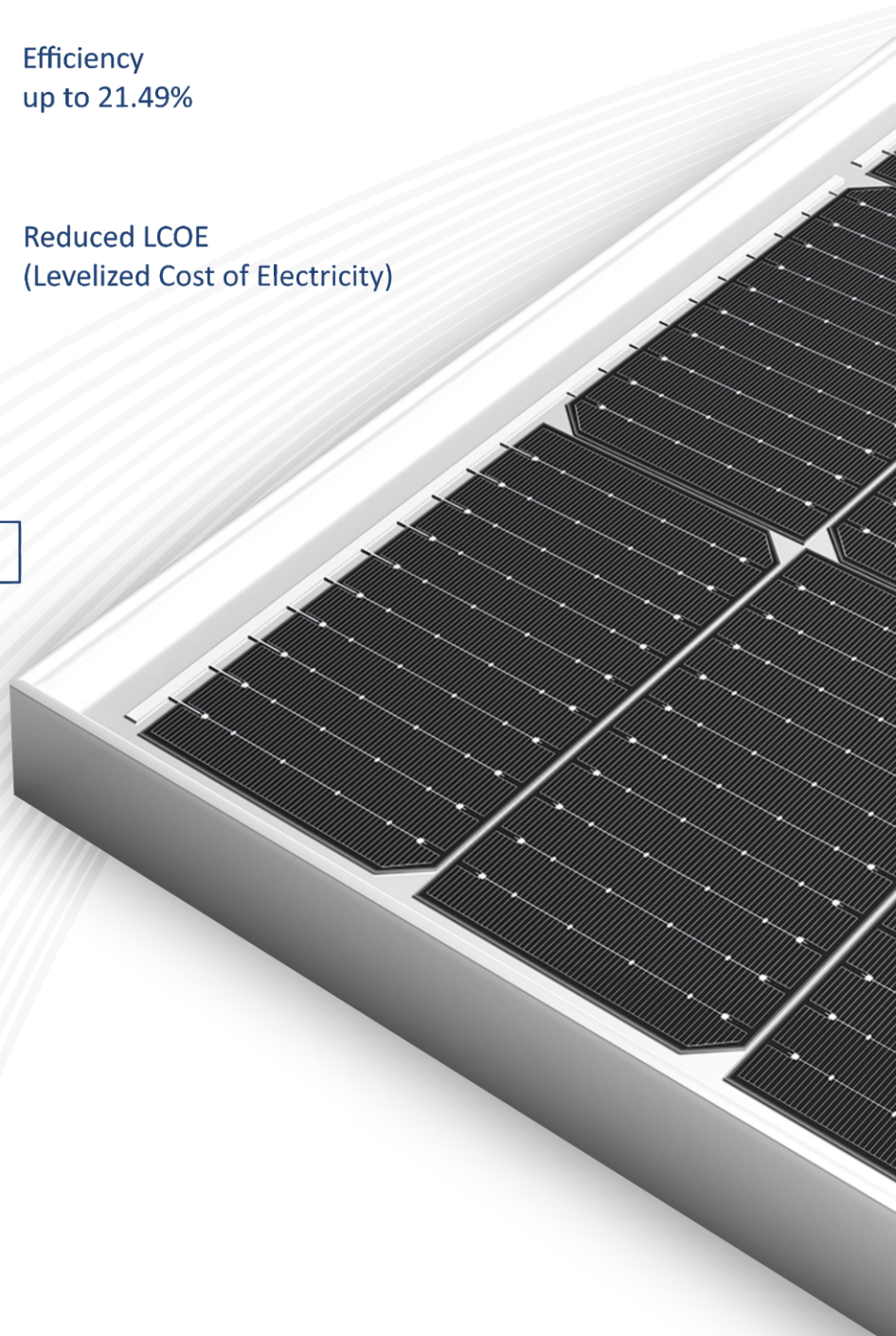
30 Year

Performance Warranty



12 Year

Product Warranty



525 WP to 555 WP - 144 Cell 10BB Module

Electrical Characteristics (STC)

Module Type	SGE_XXXTG							
	W	525	530	535	540	545	550	555
Maximum Power (Pmax)	W	525	530	535	540	545	550	555
Power Tolerance	W	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5
Maximum Power Voltage (Vmp)	V	40.69	40.86	41.05	41.26	41.45	41.63	41.79
Maximum Power Current (Imp)	A	12.92	12.94	13.02	13.09	13.16	13.22	13.26
Open Circuit Voltage (Voc)	V	49.06	49.19	49.40	49.55	49.73	49.89	50.04
Short Circuit Current (Isc)	A	13.43	13.50	13.56	13.62	13.71	13.79	13.83
Module Efficiency (m)	%	20.34	20.52	20.72	20.91	21.12	21.30	21.49

STC : AM=1.5 Irradiance=1000W/m², Module Temperature=25°C

Electrical Characteristics (NMOT)

Module Type	SGE_XXXTG								
	W	525	530	535	540	545	550	555	
Maximum Power (Pmp)	W	388.66	392.37	396.05	399.77	403.47	441.68	407.17	410.87
Maximum Power Voltage (Vmp)	V	37.96	38.15	38.31	38.51	38.68	40.52	38.84	39.02
Maximum Power Current (Im)	A	10.27	10.31	10.36	10.41	10.46	10.89	10.51	10.56
Open Circuit Voltage (Voc)	V	45.89	46.04	46.21	46.37	46.52	48.73	46.68	46.84
Short Circuit Current (Isc)	A	10.83	10.88	10.94	10.99	11.05	11.45	11.12	11.16

NMOT : Irradiance=800W/m², Environment Temperature=20°C, Wind Speed=1m/s

Back Side Power Gain

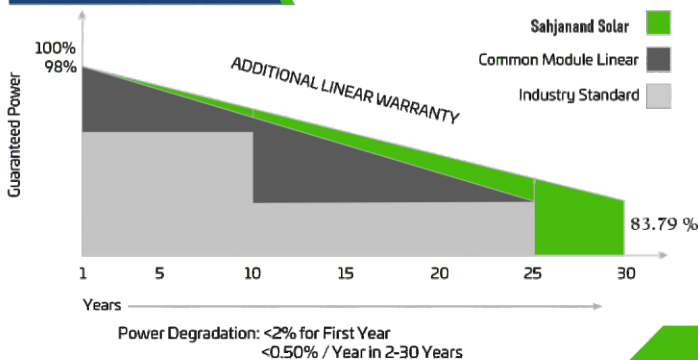
Gain (%)	SGE_XXXTG							
	Max Power (W)	551	557	562	567	572	578	583
5%	Efficiency (%)	21.33	21.56	21.76	21.95	22.14	22.37	22.57
	Max Power (W)	578	583	589	594	600	605	611
10%	Efficiency (%)	22.37	22.57	22.80	22.99	23.23	23.42	23.65
	Max Power (W)	604	610	615	621	627	633	638
15%	Efficiency (%)	23.38	23.61	23.81	24.04	24.27	24.50	24.70
	Max Power (W)	630	636	642	648	654	660	666
20%	Efficiency (%)	24.39	24.62	24.82	25.05	25.28	25.51	25.71
	Max Power (W)	656	663	669	675	681	688	694
25%	Efficiency (%)	25.39	25.67	25.90	26.13	26.36	26.63	26.87
	Max Power (W)	683	689	696	702	715	722	728
30%	Efficiency (%)	26.44	26.67	26.94	27.18	27.68	27.95	28.18

Bifacial Gain will depend on structure height, system design & surface reflectivity
[Bifacial Factor : 75% ± 10%].

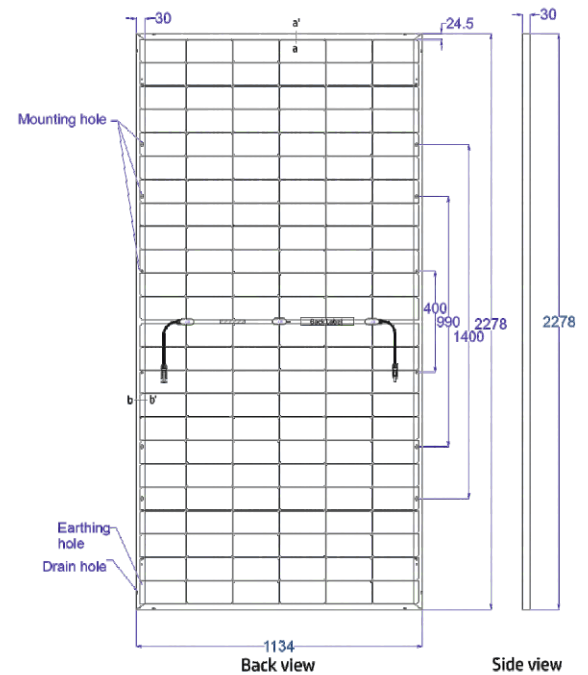
Mechanical Specifications

Cell Type / No. of Cell	144 Half Cut Bifacial Mono PERC Bifacial Solar Cells
Weight	32 Kg ± 2%
External Dimension (L x W x H)	2278 x 1134 x 30 mm
Front Glass	2.00 mm, High Transmission, AR Coated Tempered Glass
Back Glass	2.00 mm, High Transmission, Semi-Tempered Glass
Encapsulant	PID Resistant and UV Resistance Polymeric Film
Frame Material	Silver Anodized Aluminum Alloy
Junction Box	25A - Split Junction Box ,IP 68 Certified, 3 Diodes
Output Cables	4 Sq. mm & 300 mm Length (Customized)
Connectors	MC4 Compatible
Application Rating	Class A

LINEAR GRAPH



DRAWING (MEASUREMENTS ARE IN MM)

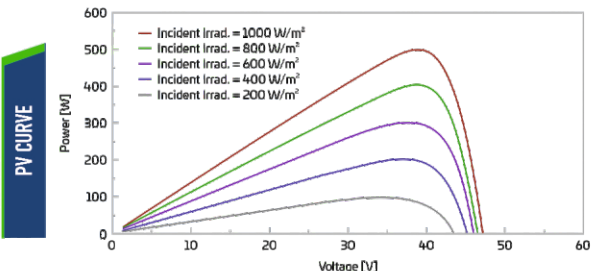
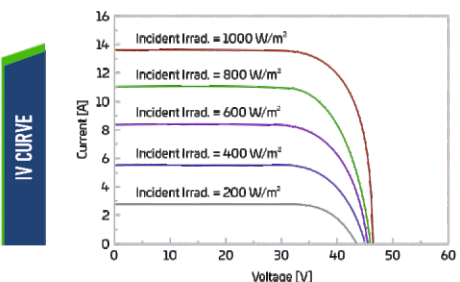


Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	45 ± 2°C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.048%/°C

Maximum Operating Conditions

Operating Temperature	-40°C to +85°C
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	25A



PRODUCT CERTIFICATION

- IS 14286/IEC 61215 - Design Qualification & Type Approval
- IS/IEC 61730/1 - Requirement for Construction
- IS/IEC 61730/2 - Requirement for Testing

Above Certificate Are Applied