SAHJANAND
SOLAR

N-TYPE TOPCON

HalfCut 16BB

560 WP - 600 WP

Bifacial (Glass to Glass)

- Latest SMBB (Super Multi Busbar) Technology
- Efficiency up to 23.22 %
- Up to 30% Extra Power Generation
- Lower Temperature Co-efficient
- Better Shading Performance

INDUSTRY LEADING PROTECTION

30 Year Performance Warranty

12 Year Product Warranty

560 WP to 600 WP - 144 Cell 16 BB Module

SAHJANAND SOLAR

Electrical Characteristics (STC)

Module Type		SGE_XXXTG								
Maximum Power (Pmax)	W	560	565	570	575	580	585	590	595	600
Power Tolerance	W	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5
Maximum Power Voltage (Vmp)	V	42.36	42.48	42.60	42.72	42.84	42.96	43.11	43.22	43.35
Maximum Power Current (Imp)	A	13.23	13.31	13.39	13.47	13.55	13.63	13.71	13.79	13.87
Open Circuit Voltage (Voc)	V	50.80	50.97	51.14	51.31	51.48	51.65	51.81	51.98	52.15
Short Circuit Current (Isc)	A	13.93	14.01	14.09	14.17	14.25	14.33	14.39	14.49	14.57
Module Efficiency (m)	%	21.69	21.86	22.07	22.25	22.43	22.64	22.83	23.03	23.22

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

Electrical Characteristics (NMOT)

Maximum Power (Pmp)	W	422.80	426.58	430.35	434.13	437.90	441.68	445.45	449.23	453
Maximum Power Voltage (Vmp)	V	39.94	40.06	40.17	40.29	40.39	40.52	40.62	40.74	40.86
Maximum Power Current (Im)	A	10.58	10.63	10.71	10.76	10.83	10.89	10.96	11.03	11.10
Open Circuit Voltage (Voc)	V	47.92	48.08	48.24	48.41	48.56	48.73	48.88	49.05	49.22
Short Circuit Current (Isc)	A	11.14	11.19	11.27	11.32	11.39	11.45	11.52	11.58	11.65

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

Back Side Power Gain

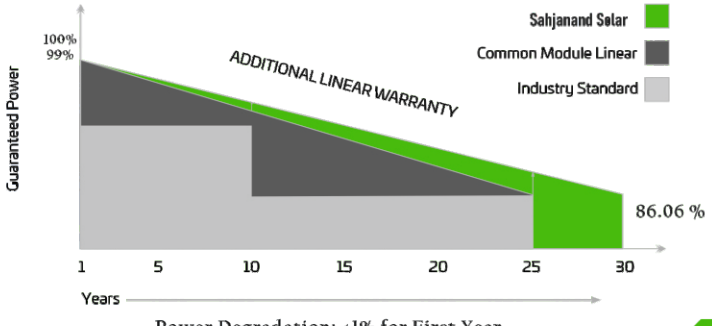
5%	Max Power (W)	588	593	599	604	609	614	620	625	630
	Efficiency (%)	22.73	22.95	23.15	23.36	23.56	23.76	23.96	24.2	24.39
10%	Max Power (W)	616	622	627	633	638	644	649	655	660
	Efficiency (%)	23.84	24.04	24.26	24.47	24.68	24.89	25.10	25.32	25.55
15%	Max Power (W)	644	650	656	661	667	673	679	684	690
	Efficiency (%)	24.92	25.14	25.37	25.58	25.82	26.02	26.25	26.47	26.71
20%	Max Power (W)	672	678	684	690	696	702	708	714	720
	Efficiency (%)	26.00	26.23	26.47	26.70	26.93	27.16	27.39	27.62	27.87
25%	Max Power (W)	700	706	713	719	725	731	738	744	750
	Efficiency (%)	27.08	27.32	27.56	27.81	28.05	28.29	28.53	28.77	29.03
30%	Max Power (W)	728	735	741	748	754	761	767	774	780
	Efficiency (%)	28.17	28.34	28.67	28.91	29.18	29.42	29.67	29.92	30.2

Bifacial Gain will depen on structure height, system design & surface reflectivity
[Bifacial Factor : 80% ± 10%].

Mechanical Specifications

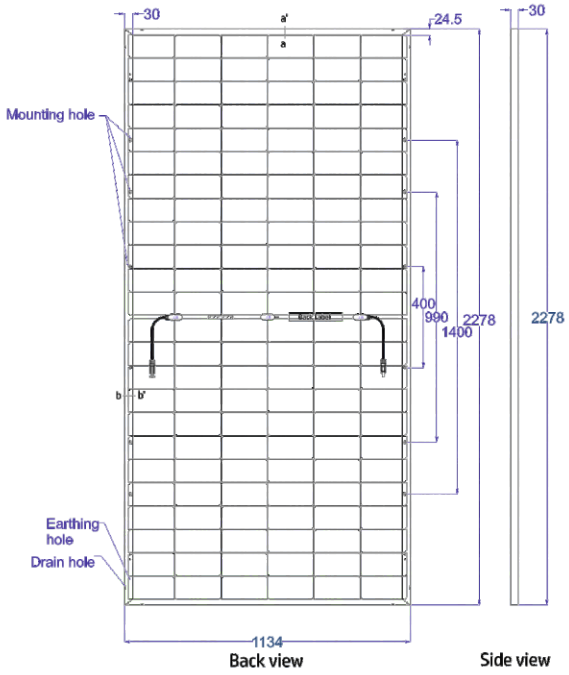
Cell Type / No. of Cell	**144 Half Cut N-Type TOPCon Cells**
External Dimension (L x W x H)	2278 x 1134 x 30 mm
Weight	**32 Kg ± 2%**
Front Glass	2 mm Low Iron High Transmission AR Coated Tempered Glass
Back Glass	**2 mm Low Iron High Transmission Semi-Tempered Glass**
Encapsulant	PID Resistant and UV Resistance Polymeric Flim
Frame Material	**Silver Anodized Aluminum Alloy**
Junction Box	30A, IP 68 Split JB , 3 Diodes
Output Cables	**4 Sq. mm & 300 mm Length (customizable)**
Connectors	MC4 Compactable
Application Rating	**Class A**

LINEAR GRAPH



Power Degradation: <1% for First Year
<0.45% / Year in 2-30 Years

DRAWING (MEASUREMENTS ARE IN MM)



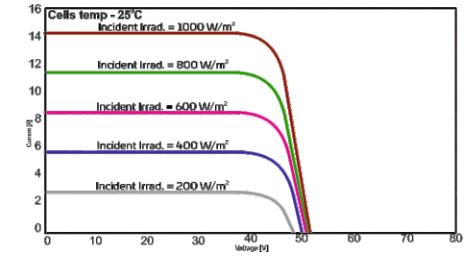
Temprature Characteristics

Nominal Module Operating Temperature (NMOT)	**45 ± 2°C**
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	**-0.25%/°C**
Temperature Coefficient of Isc	0.045%/°C

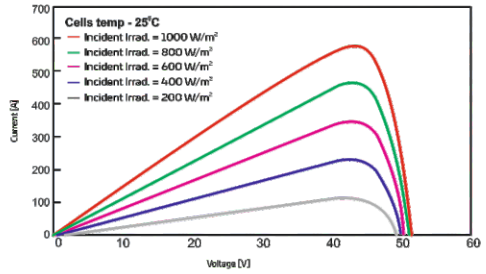
Maximum Operating Conditions

Operating Temperatue	-40°C to +85°C
Maximum System Volatge	**1500 V**
Maximum Series Fuse Rating	30 A

IV CURVE



PV CURVE



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