

144 Half Cut Cell

P-Type Mono PERC Bifacial

550 Wp

Efficiency
up to

21.29%

550 Wp

Maximum Power Output

21.29%

Maximum Module Efficiency

0~+5^W

Power Output Guarantee

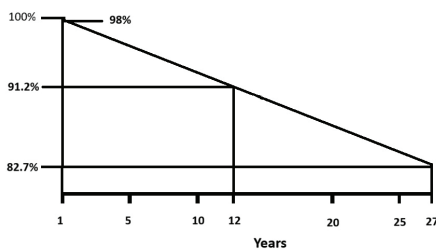
PRODUCT CERTIFICATES

IS 14286 | IS/IEC 61730-1/2 | IEC 61215 |
IEC 61730-1/2 | IEC 62804 | IEC 61701 |
IEC 62716 | IEC 61853

ISO CERTIFICATES

- ISO 9001:2015 - Quality Management System
- ISO 14001:2015 - International Standard for Environmental Management System
- ISO 45001:2018 - International Standard for Occupational Health and Safety

Linear Degradation & Performance Chart



The graphs are for reference purposes only.

Please consult the Ganesh Green Bharat Limited technical team for further clarification.

*Third Party Insurance by

NSE SME Listed (Stock Code : GGBL)



R-72005886

12 YEARS

Product warranty on materials and workmanship

27 YEARS

Industry leading with 82.7% performance output warranty*

< 2%

First Year Degradation

LID

Negligible LID

PID

High PID Resistance

PRODUCT KEY FEATURES

- Higher Efficiency with bifacial gain
- Positive Power Output
- Low LCOE & BOS
- Withstand heavy wind & snow loads
- Superior low-light performance
- Better temperature Coefficient for high-heat conditions
- Low annual linear degradation
- Tier-1 brand Solar Cells
- POE & EPE encapsulation for extended module life
- 6005-T6 alloy aluminium frame materials for robust mechanical stability
- Fully automated manufacturing facilities
- Sustain Dynamic & Static load
- Better Performance at Low Irradiance

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ELECTRICAL PARAMETERS (STC)

MODEL	SGMJ144BT-550	SGMJ144BT-545	SGMJ144BT-540	SGMJ144BT-535	SGMJ144BT-530
Voc(V) Tolerance ± 5%	49.7	49.6	49.5	49.4	49.3
Isc(A) Tolerance ± 5%	13.9	13.8	13.7	13.6	13.5
Vmax (V) Tolerance ± 5%	42.35	42.3	42.25	42.2	42.1
Imax(A) Tolerance ± 5%	13	12.9	12.8	12.7	12.6
Pmax(Wp) Tolerance 0 to +2%	550	545	540	535	530
EFF(%) Positive Tolerance	21.29	21.1	20.9	20.71	20.52

*STC: Irradiance 1000W/m², Temperature 25°C, Spectrum at AM 1.5

ELECTRICAL PARAMETERS (NMOT/NOCT)

MODEL	SGMJ144BT-550	SGMJ144BT-545	SGMJ144BT-540	SGMJ144BT-535	SGMJ144BT-530
Voc(V)	46.5	46.4	46.3	46.2	46.1
Isc(A)	11.24	11.16	11.08	11	10.92
Vmax(V)	38.8	38.7	38.7	38.6	38.6
Imax(A)	10.67	10.6	10.5	10.45	10.37
Pmax(Wp)	414	410	406	403	400
EFF(%)	20.05	19.85	19.7	19.5	19.4

*NMOT/NOCT: Irradiance 800 W/m², Ambient Temperature at NMOT/NOCT, Spectrum at AM 1.5

POWER GAIN

	MODEL	SGMJ144BT-550	SGMJ144BT-545	SGMJ144BT-540	SGMJ144BT-535	SGMJ144BT-530
5%	PowerOutput(Wp)	578	572	567	562	557
	Module eff. (%)	22.36%	22.15%	21.95%	21.75%	21.54%
10%	PowerOutput(Wp)	605	600	594	589	583
	Module eff. (%)	23.42%	23.21%	22.99%	22.78%	22.57%
15%	PowerOutput(Wp)	633	627	621	615	610
	Module eff. (%)	24.48%	24.26%	24.04%	23.82%	23.59%
20%	PowerOutput(Wp)	660	654	648	642	636
	Module eff. (%)	25.55%	25.32%	25.08%	24.85%	24.62%

*Note : Extra Power Gain from rear side at STC depends on mounting structure (height, tilt angles etc.) and reflectivity of ground. Bi-faciality Factor:70: 5%

DESIGN SPECIFICATION

Cell Type/No of Cell	144 Half Cut P-Type 10BB Mono PERC Bifacial solarcell
Dimension	2278x1134x30 mm
Weight	27.5 Kgs ± 3%
Front Cover	Low Iron, ARC, HS Tempered Glass 3.20 mm
Encapsulation	PID resistant and UV resistant Polymeric Film
Back cover	Transparent Backsheet max. system voltage 1500VDC
Frame	AA15 Anodized aluminum alloy
Diode	03 nos. Bypass Diodes
Junction box	IP68 Split JB
Cable	4 sq. mm, 400 mm length / as customer requirement

MAXIMUM RATING

System Voltage	1500VDC
Fuse Rating	30A
Application Class	A
Safety Class	II
Snow Load	5400 Pa
Wind Load	2400 Pa
Bifaciality Factor	70±5%

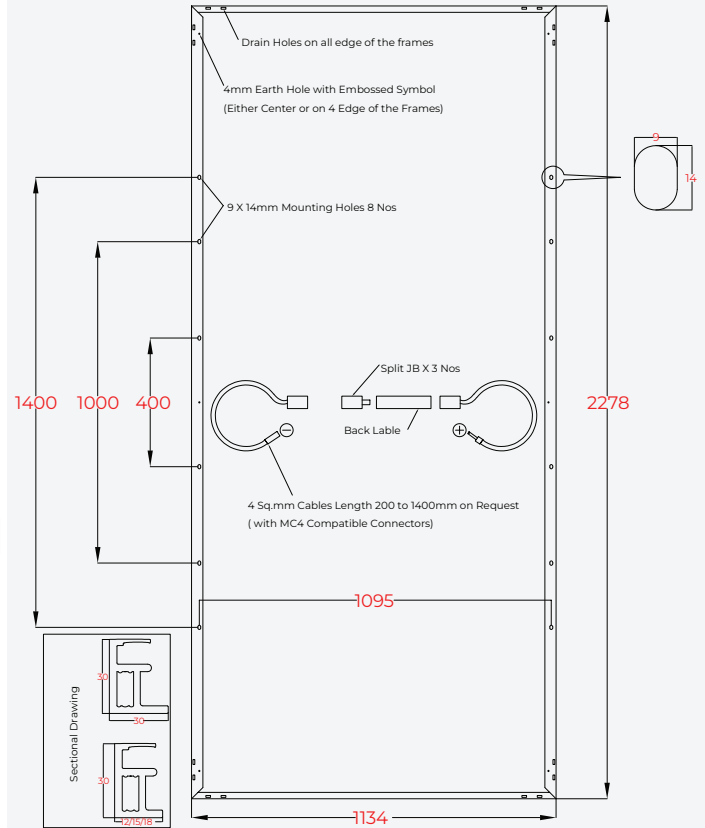
TEMPERATURE RATING

α(Isc):	0.04%/°C
β(Vec):	-0.32%/°C
γ(P max):	-0.38%/°C
NOMT/NOCT	45±2°C
Operating Range	-40°C to 85°C
Power Binning	0 to +4.99 W

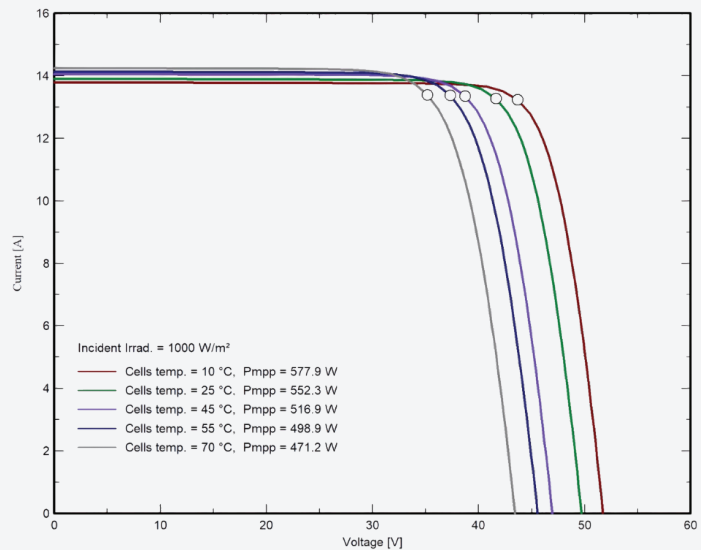
STACKING STANDARD

40 FT	
No. of Modules per Vehicle	680 Nos.
No. of Pallet per Vehicle	20 Pallets
Module Per Pallet	34 Nos.
Per Pallet Weight	Max. 1100 Kgs.

Rear/ Back View



PV module: Ganesh Green Bharat Ltd., SGMJ144BT-550



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