

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

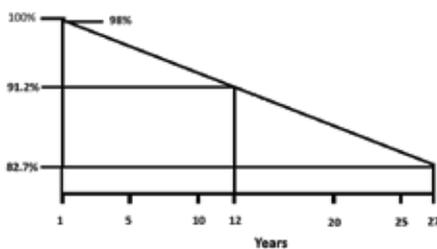
PRODUCT CERTIFICATES

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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P-Type Mono PERC Bifacial

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% |

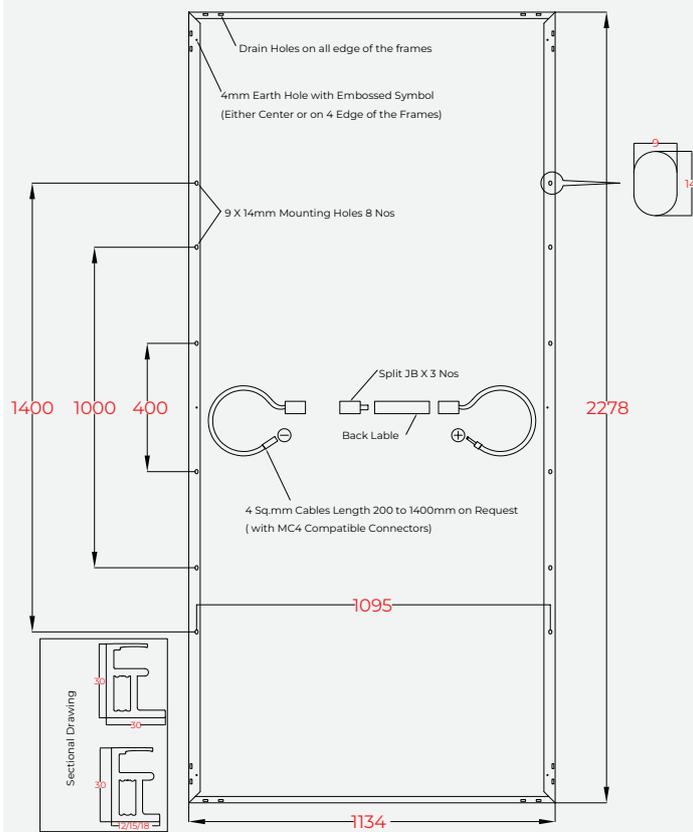
TEMPERATURE RATING

| | |
|-----------------|---------------|
| 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 |

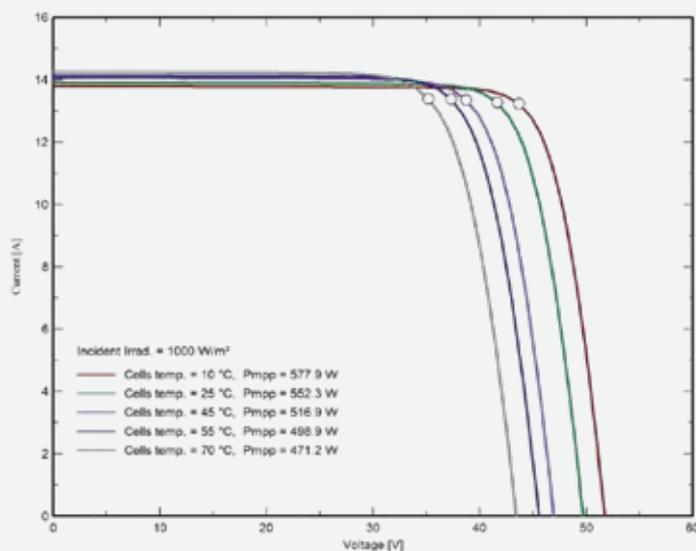
STACKING STANDARD

| | |
|----------------------------|----------------|
| | 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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