

MODULE DATASHEETS · 2026

# Complete module range

Every n-type TOPCon bifacial dual-glass module Shweta Solar manufactures: ten families, 93 power bins, 395 W to 725 W.

| FAMILY       | POWER RANGE | BINS | DIMENSIONS     | PLATFORM         |
|--------------|-------------|------|----------------|------------------|
| SS132GTG-725 | 685–725 W   | 9    | 2383 × 1303 mm | 132 cells · G12  |
| SS120GTG-685 | 620–685 W   | 14   | 2170 × 1303 mm | 120 cells · G12  |
| SS132GTG-650 | 615–650 W   | 8    | 2383 × 1134 mm | 132 cells · G12R |
| SS108GTG-615 | 560–615 W   | 12   | 1965 × 1303 mm | 108 cells · G12  |
| SS120GTG-600 | 550–600 W   | 11   | 2170 × 1134 mm | 120 cells · G12R |
| SS96GTG-550  | 510–550 W   | 9    | 1762 × 1303 mm | 96 cells · G12   |
| SS108GTG-540 | 500–540 W   | 9    | 1965 × 1134 mm | 108 cells · G12R |
| SS96GTG-480  | 450–480 W   | 7    | 1762 × 1134 mm | 96 cells · G12R  |
| SS84GTG-480  | 445–480 W   | 8    | 1544 × 1303 mm | 84 cells · G12   |
| SS84GTG-420  | 395–420 W   | 6    | 1544 × 1134 mm | 84 cells · G12R  |

# 01

## Utility & ground-mount

Solar farms, ground-mount arrays and tracker-based plants, where modules are machine-placed and cost per watt decides the design.

| FAMILY       | POWER RANGE | BINS | DIMENSIONS     | PLATFORM         |
|--------------|-------------|------|----------------|------------------|
| SSI32GTG-725 | 685-725 W   | 9    | 2383 × 1303 mm | 132 cells · G12  |
| SSI20GTG-685 | 620-685 W   | 14   | 2170 × 1303 mm | 120 cells · G12  |
| SSI32GTG-650 | 615-650 W   | 8    | 2383 × 1134 mm | 132 cells · G12R |

615-725 W · 3 families · 31 power bins

n-Type TOPCon bifacial

Glass-glass dual glass

Up to 23.37% efficiency

1500 V DC

BIS R-93049670

ALMM List-I

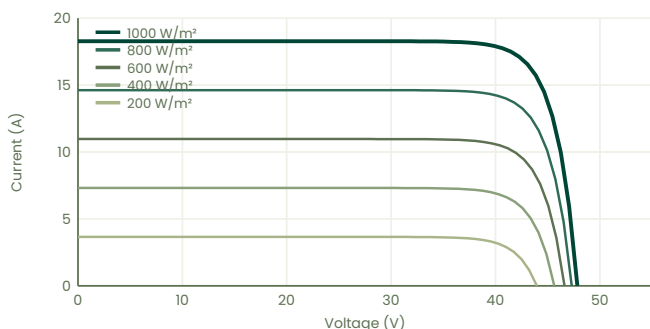
12-yr product · 30-yr performance

## Electrical data — STC & BNPI

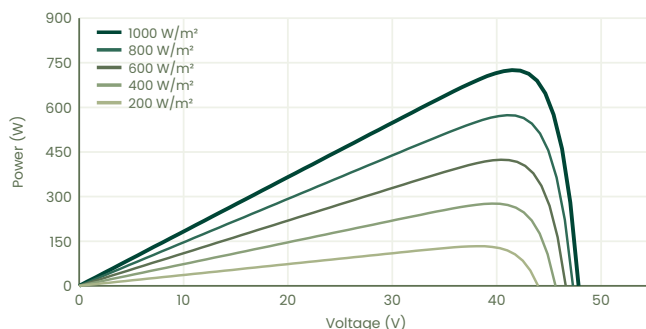
| Rated power $P_{max}$ (W)          | 725   | 720   | 715   | 710   | 705   | 700   | 695   | 690   | 685   |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Voltage at $P_{max}$ $V_{mp}$ (V)  | 41.68 | 41.46 | 41.22 | 41.01 | 40.75 | 40.59 | 40.47 | 40.35 | 40.23 |
| Current at $P_{max}$ $I_{mp}$ (A)  | 17.41 | 17.37 | 17.35 | 17.33 | 17.31 | 17.25 | 17.18 | 17.12 | 17.04 |
| Open-circuit voltage $V_{oc}$ (V)  | 47.85 | 47.78 | 47.65 | 47.52 | 47.45 | 47.39 | 47.34 | 47.31 | 47.26 |
| Short-circuit current $I_{sc}$ (A) | 18.28 | 18.26 | 18.25 | 18.22 | 18.20 | 18.19 | 18.16 | 18.12 | 18.09 |
| Module efficiency (%)              | 23.37 | 23.19 | 23.03 | 22.89 | 22.72 | 22.55 | 22.39 | 22.25 | 22.08 |
| $P_{max}$ at BNPI (W)              | 798   | 792   | 787   | 782   | 776   | 770   | 765   | 759   | 754   |

STC: 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5 · Power tolerance 0 / +5 W ·  $V_{oc}$  and  $I_{sc}$  tolerance ±5% · BNPI: front 1000 W/m<sup>2</sup> + rear 135 W/m<sup>2</sup> · Efficiency per BIS-declared nameplate.

### I-V curves



### P-V curves



## Bifacial output & packaging

**725 W front** +5% 761 · +10% 798 · +15% 834 · +25% 906 W

33 pcs/pallet

## Mechanical characteristics

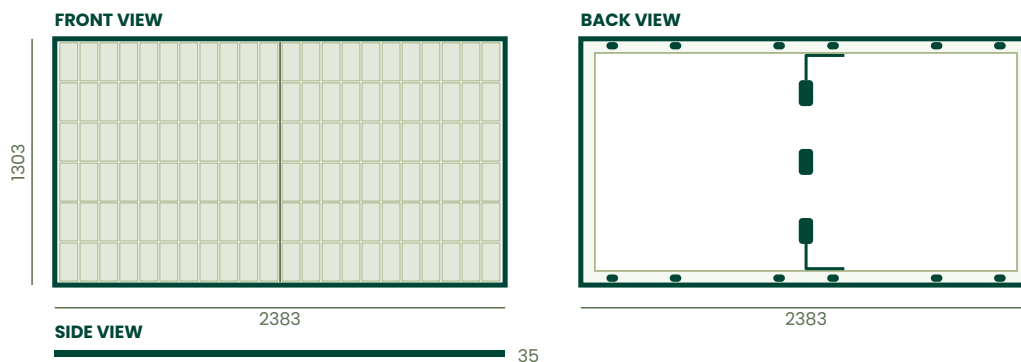
|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Cell type              | n-Type TOPCon bifacial · G12 210 × 105 mm half-cut · 18BB |
| Cells / arrangement    | 132 half-cut cells · (11×6)×2                             |
| Dimensions (L × W × H) | 2383 × 1303 × 35 mm                                       |
| Weight                 | 39.0 kg                                                   |
| Front / rear glass     | 2.0 mm AR-coated tempered / 2.0 mm tempered               |
| Frame                  | Anodised aluminium alloy                                  |
| Junction box           | IP68 · 3 bypass diodes                                    |
| Connectors             | MC4-compatible · IP68                                     |
| Cable                  | 4 mm <sup>2</sup> PV cable                                |

## Ratings & temperature characteristics

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| Temp. coefficient of P <sub>max</sub> | -0.327 %/°C                              |
| Temp. coefficient of V <sub>oc</sub>  | -0.269 %/°C                              |
| Temp. coefficient of I <sub>sc</sub>  | +0.045 %/°C                              |
| Power bifaciality                     | 70% ± 10%                                |
| Operating temperature                 | -40 °C to +85 °C                         |
| Max. system voltage                   | 1500 V DC                                |
| Max. series fuse                      | 35 A                                     |
| Static load, front / rear             | 5400 Pa / 2400 Pa                        |
| Class ratings                         | Safety Class II · Fire Class C           |
| Warranty                              | 12-yr product · 30-yr linear performance |

## Engineering drawings

mm · not to scale · 12 × 9×14 mm mounting slots, 6 per long rail



**Certification** · IS 14286 (Part 1/Sec 1) : 2023 · IEC 61215-1-1 : 2021 · IS/IEC 61730-1 : 2023 · IS/IEC 61730-2 : 2023 · BIS licence R-93049670, valid to 13 September 2031 · ALMM List-I · Tested at NABL-accredited laboratory

**Warranty** · 12-year product warranty · 30-year linear performance warranty: ≤1% first-year degradation, ≤0.4% per year thereafter, ≥87.4% of nominal at year 30

**Quality** · 100% electroluminescence inspection pre- and post-lamination · Individual flash-test report shipped with every module · Serialised modules with per-unit test data

Specifications subject to change without notice. All electrical data at STC per BIS-declared nameplate values; refer to the individual module flash report for measured values. I-V and P-V curves are representative, modelled from nameplate parameters. Packaging figures are for standard export packing and may vary with order configuration.

n-Type TOPCon bifacial

Glass-glass dual glass

Up to 24.23% efficiency

1500 V DC

BIS R-93049670

ALMM List-I

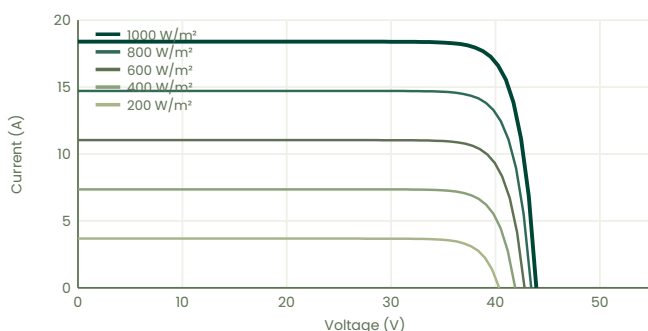
12-yr product · 30-yr performance

## Electrical data — STC & BNPI

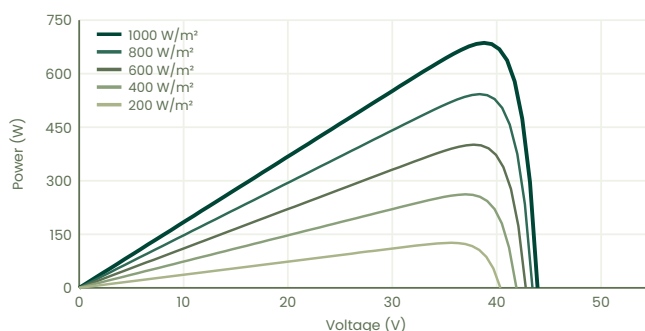
| Rated power $P_{max}$ (W)          | 685   | 680   | 675   | 670   | 665   | 660   | 655   | 650   | 645   | 640   | 635   | 630   | 625   | 620   |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Voltage at $P_{max}$ $V_{mp}$ (V)  | 39.24 | 39.01 | 38.76 | 38.53 | 38.32 | 38.14 | 37.87 | 37.67 | 37.20 | 36.96 | 36.88 | 36.78 | 36.63 | 36.48 |
| Current at $P_{max}$ $I_{mp}$ (A)  | 17.46 | 17.44 | 17.42 | 17.40 | 17.37 | 17.32 | 17.30 | 17.27 | 17.35 | 17.33 | 17.24 | 17.15 | 17.07 | 17.01 |
| Open-circuit voltage $V_{oc}$ (V)  | 43.92 | 43.86 | 43.80 | 43.68 | 43.60 | 43.56 | 43.44 | 43.32 | 43.20 | 43.14 | 43.12 | 43.09 | 43.07 | 43.03 |
| Short-circuit current $I_{sc}$ (A) | 18.39 | 18.35 | 18.83 | 18.32 | 18.30 | 18.28 | 18.26 | 18.25 | 18.22 | 18.20 | 18.18 | 18.15 | 18.11 | 18.07 |
| Module efficiency (%)              | 24.23 | 24.06 | 23.88 | 23.71 | 23.54 | 23.36 | 23.17 | 23.01 | 22.83 | 22.65 | 22.49 | 22.31 | 22.11 | 21.95 |
| $P_{max}$ at BNPI (W)              | 754   | 748   | 743   | 737   | 732   | 727   | 721   | 716   | 710   | 705   | 699   | 694   | 688   | 683   |

STC: 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5 · Power tolerance 0 / +5 W ·  $V_{oc}$  and  $I_{sc}$  tolerance ±5% · BNPI: front 1000 W/m<sup>2</sup> + rear 135 W/m<sup>2</sup> · Efficiency per BIS-declared nameplate.

### I-V curves



### P-V curves



## Bifacial output & packaging

**685 W front** +5% 719 · +10% 754 · +15% 788 · +25% 856 W

33 pcs/pallet

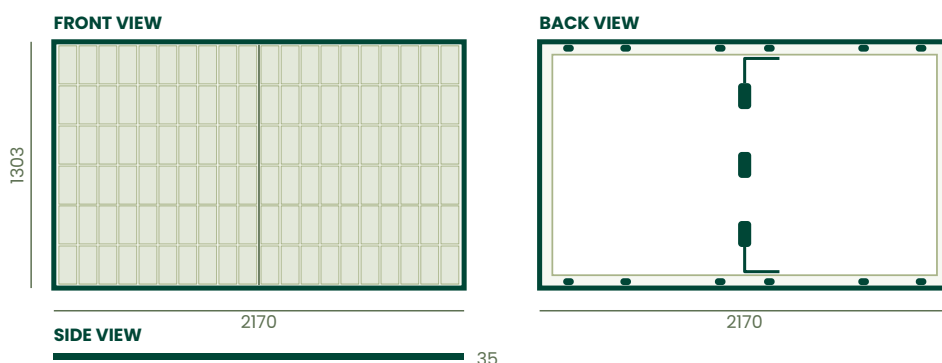
## Mechanical characteristics

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Cell type              | n-Type TOPCon bifacial · G12 210 × 105 mm half-cut · 18BB |
| Cells / arrangement    | 120 half-cut cells · (10×6)×2                             |
| Dimensions (L × W × H) | 2170 × 1303 × 35 mm                                       |
| Weight                 | 35.2 kg                                                   |
| Front / rear glass     | 2.0 mm AR-coated tempered / 2.0 mm tempered               |
| Frame                  | Anodised aluminium alloy                                  |
| Junction box           | IP68 · 3 bypass diodes                                    |
| Connectors             | MC4-compatible · IP68                                     |
| Cable                  | 4 mm <sup>2</sup> PV cable                                |

## Ratings & temperature characteristics

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| Temp. coefficient of P <sub>max</sub> | -0.327 %/°C                              |
| Temp. coefficient of V <sub>oc</sub>  | -0.269 %/°C                              |
| Temp. coefficient of I <sub>sc</sub>  | +0.045 %/°C                              |
| Power bifaciality                     | 70% ± 10%                                |
| Operating temperature                 | -40 °C to +85 °C                         |
| Max. system voltage                   | 1500 V DC                                |
| Max. series fuse                      | 35 A                                     |
| Static load, front / rear             | 5400 Pa / 2400 Pa                        |
| Class ratings                         | Safety Class II · Fire Class C           |
| Warranty                              | 12-yr product · 30-yr linear performance |

## Engineering drawings mm · not to scale · 12 × 9×14 mm mounting slots, 6 per long rail



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n-Type TOPCon bifacial

Glass-glass dual glass

Up to 24.07% efficiency

1500 V DC

BIS R-93049670

ALMM List-I

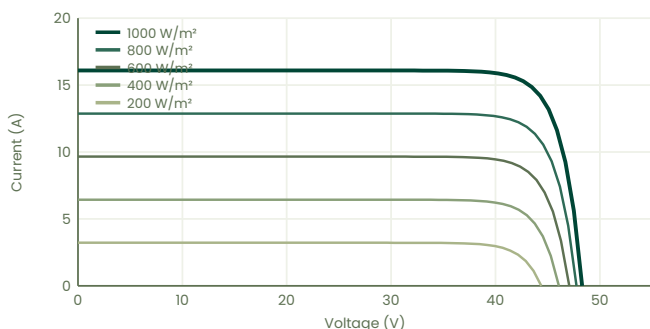
12-yr product · 30-yr performance

## Electrical data — STC & BNPI

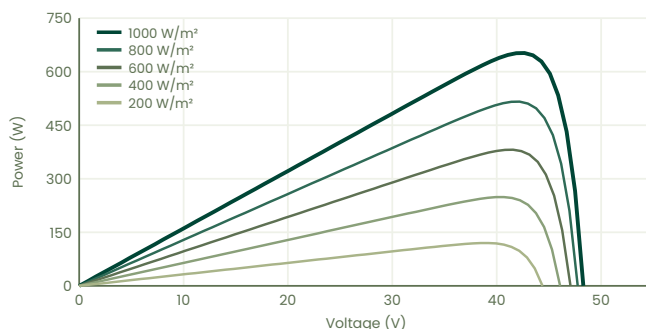
| Rated power $P_{max}$ (W)          | 650   | 645   | 640   | 635   | 630   | 625   | 620   | 615   |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Voltage at $P_{max}$ $V_{mp}$ (V)  | 41.58 | 41.45 | 41.32 | 41.18 | 41.05 | 40.92 | 40.85 | 40.71 |
| Current at $P_{max}$ $I_{mp}$ (A)  | 15.64 | 15.57 | 15.49 | 15.42 | 15.36 | 15.27 | 15.20 | 15.12 |
| Open-circuit voltage $V_{oc}$ (V)  | 48.31 | 48.18 | 48.05 | 47.92 | 47.78 | 47.65 | 47.60 | 47.56 |
| Short-circuit current $I_{sc}$ (A) | 16.09 | 16.05 | 16.00 | 15.96 | 15.92 | 15.89 | 15.83 | 15.80 |
| Module efficiency (%)              | 24.07 | 23.88 | 23.70 | 23.51 | 23.33 | 23.14 | 22.96 | 22.77 |
| $P_{max}$ at BNPI (W)              | 715   | 710   | 704   | 699   | 693   | 688   | 683   | 677   |

STC: 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5 · Power tolerance 0 / +5 W ·  $V_{oc}$  and  $I_{sc}$  tolerance ±5% · BNPI: front 1000 W/m<sup>2</sup> + rear 135 W/m<sup>2</sup> · Efficiency per BIS-declared nameplate.

### I-V curves



### P-V curves



## Bifacial output & packaging

**650 W front** +5% 682 · +10% 715 · +15% 747 · +25% 812 W

36 pcs/pallet

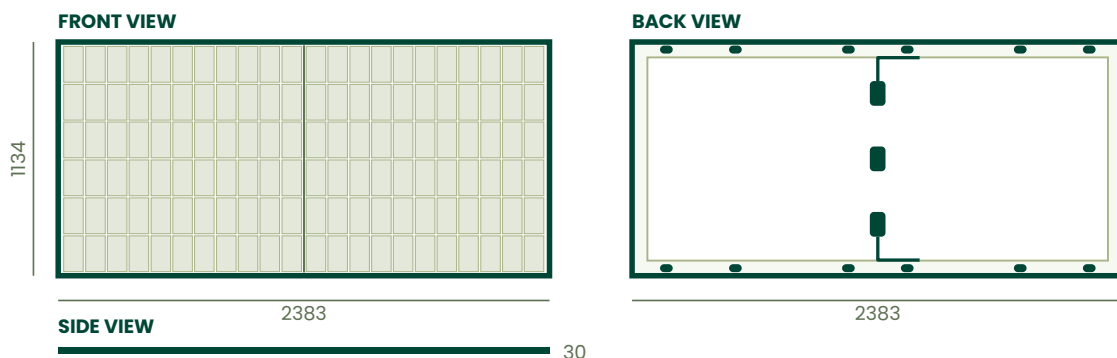
## Mechanical characteristics

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Cell type              | n-Type TOPCon bifacial · G12R<br>182 × 105 mm half-cut · 16BB |
| Cells / arrangement    | 132 half-cut cells · (11×6)×2                                 |
| Dimensions (L × W × H) | 2383 × 1134 × 30 mm                                           |
| Weight                 | 33.5 kg                                                       |
| Front / rear glass     | 2.0 mm AR-coated tempered /<br>2.0 mm tempered                |
| Frame                  | Anodised aluminium alloy                                      |
| Junction box           | IP68 · 3 bypass diodes                                        |
| Connectors             | MC4-compatible · IP68                                         |
| Cable                  | 4 mm <sup>2</sup> PV cable                                    |

## Ratings & temperature characteristics

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| Temp. coefficient of P <sub>max</sub> | -0.300 %/°C                              |
| Temp. coefficient of V <sub>oc</sub>  | -0.255 %/°C                              |
| Temp. coefficient of I <sub>sc</sub>  | +0.044 %/°C                              |
| Power bifaciality                     | 70% ± 10%                                |
| Operating temperature                 | -40 °C to +85 °C                         |
| Max. system voltage                   | 1500 V DC                                |
| Max. series fuse                      | 35 A                                     |
| Static load, front / rear             | 5400 Pa / 2400 Pa                        |
| Class ratings                         | Safety Class II · Fire Class C           |
| Warranty                              | 12-yr product · 30-yr linear performance |

## Engineering drawings mm · not to scale · 12 × 9×14 mm mounting slots, 6 per long rail



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# 02

## Commercial & industrial rooftop

Factories, warehouses, institutions and large residential buildings — high power in a module two people can carry onto a roof.

| FAMILY       | POWER RANGE | BINS | DIMENSIONS     | PLATFORM         |
|--------------|-------------|------|----------------|------------------|
| SSI08GTG-615 | 560–615 W   | 12   | 1965 × 1303 mm | 108 cells · G12  |
| SSI20GTG-600 | 550–600 W   | 11   | 2170 × 1134 mm | 120 cells · G12R |
| SS96GTG-550  | 510–550 W   | 9    | 1762 × 1303 mm | 96 cells · G12   |
| SSI08GTG-540 | 500–540 W   | 9    | 1965 × 1134 mm | 108 cells · G12R |

500–615 W · 4 families · 41 power bins

n-Type TOPCon bifacial

Glass-glass dual glass

Up to 24.04% efficiency

1500 V DC

BIS R-93049670

ALMM List-I

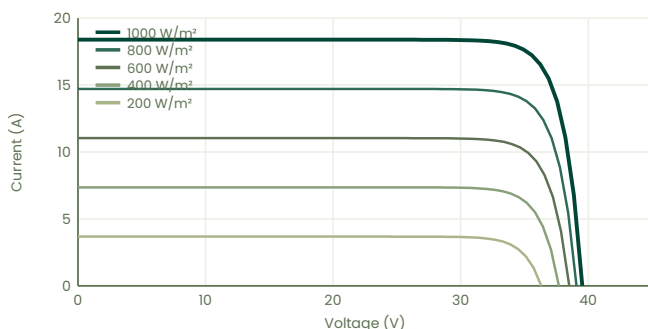
12-yr product · 30-yr performance

## Electrical data — STC & BNPI

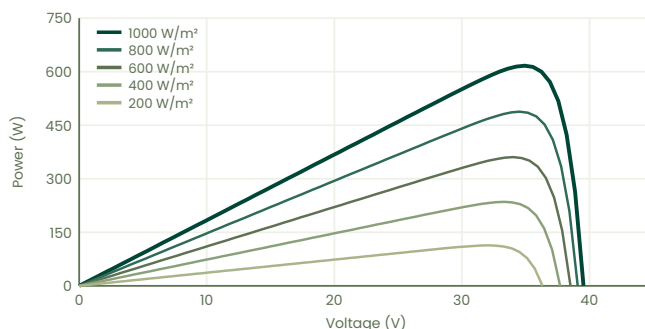
| Rated power $P_{max}$ (W)          | 615   | 610   | 605   | 600   | 595   | 590   | 585   | 580   | 575   | 570   | 565   | 560   |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Voltage at $P_{max}$ $V_{mp}$ (V)  | 35.28 | 35.02 | 34.81 | 34.55 | 34.33 | 34.09 | 33.80 | 33.58 | 33.33 | 33.21 | 33.04 | 32.94 |
| Current at $P_{max}$ $I_{mp}$ (A)  | 17.45 | 17.43 | 17.40 | 17.37 | 17.35 | 17.33 | 17.31 | 17.28 | 17.26 | 17.19 | 17.11 | 17.03 |
| Open-circuit voltage $V_{oc}$ (V)  | 39.53 | 39.42 | 39.37 | 39.31 | 39.20 | 39.17 | 38.99 | 38.88 | 38.83 | 38.78 | 38.72 | 38.68 |
| Short-circuit current $I_{sc}$ (A) | 18.39 | 18.34 | 18.32 | 18.30 | 18.28 | 18.26 | 18.24 | 18.22 | 18.20 | 18.17 | 18.14 | 18.11 |
| Module efficiency (%)              | 24.04 | 23.84 | 23.66 | 23.44 | 23.26 | 23.07 | 22.85 | 22.66 | 22.47 | 22.30 | 22.08 | 21.91 |
| $P_{max}$ at BNPI (W)              | 677   | 671   | 666   | 660   | 655   | 650   | 644   | 638   | 633   | 628   | 622   | 617   |

STC: 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5 · Power tolerance 0 / +5 W ·  $V_{oc}$  and  $I_{sc}$  tolerance ±5% · BNPI: front 1000 W/m<sup>2</sup> + rear 135 W/m<sup>2</sup> · Efficiency per BIS-declared nameplate.

### I-V curves



### P-V curves



## Bifacial output & packaging

**615 W front** +5% 646 · +10% 676 · +15% 707 · +25% 769 W

33 pcs/pallet

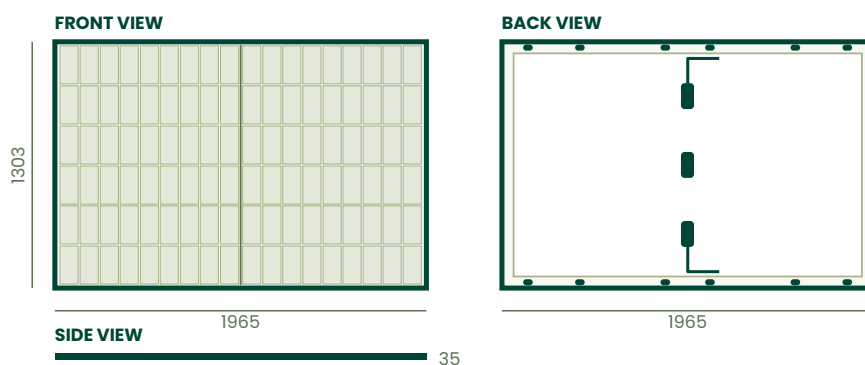
## Mechanical characteristics

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Cell type              | n-Type TOPCon bifacial · G12 210 × 105 mm half-cut · 18BB |
| Cells / arrangement    | 108 half-cut cells · (9×6)×2                              |
| Dimensions (L × W × H) | 1965 × 1303 × 35 mm                                       |
| Weight                 | 31.9 kg                                                   |
| Front / rear glass     | 2.0 mm AR-coated tempered / 2.0 mm tempered               |
| Frame                  | Anodised aluminium alloy                                  |
| Junction box           | IP68 · 3 bypass diodes                                    |
| Connectors             | MC4-compatible · IP68                                     |
| Cable                  | 4 mm <sup>2</sup> PV cable                                |

## Ratings & temperature characteristics

|                                       |                                          |
|---------------------------------------|------------------------------------------|
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| Operating temperature                 | -40 °C to +85 °C                         |
| Max. system voltage                   | 1500 V DC                                |
| Max. series fuse                      | 35 A                                     |
| Static load, front / rear             | 5400 Pa / 2400 Pa                        |
| Class ratings                         | Safety Class II · Fire Class C           |
| Warranty                              | 12-yr product · 30-yr linear performance |

## Engineering drawings



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Glass-glass dual glass

Up to 24.39% efficiency

1500 V DC

BIS R-93049670

ALMM List-I

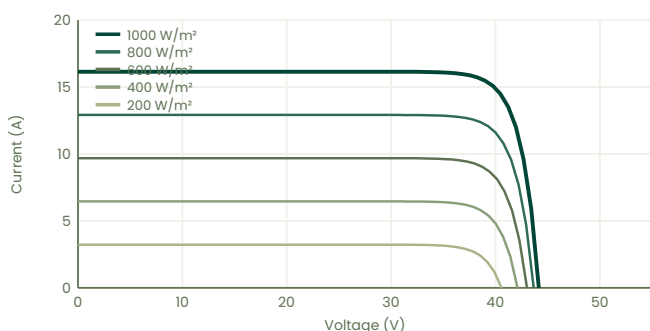
12-yr product · 30-yr performance

## Electrical data — STC & BNPI

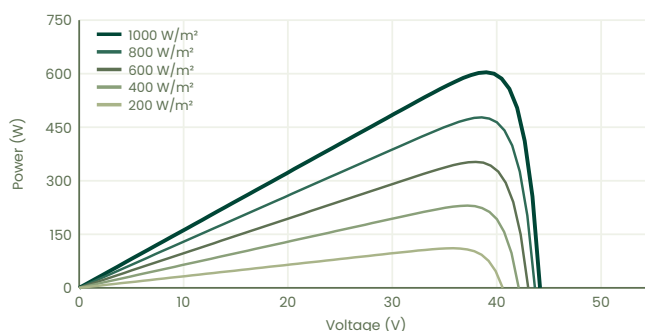
| Rated power $P_{max}$ (W)          | 600   | 595   | 590   | 585   | 580   | 575   | 570   | 565   | 560   | 555   | 550   |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Voltage at $P_{max}$ $V_{mp}$ (V)  | 38.04 | 37.92 | 37.77 | 37.62 | 37.54 | 37.38 | 37.26 | 37.08 | 36.97 | 36.81 | 36.68 |
| Current at $P_{max}$ $I_{mp}$ (A)  | 15.78 | 15.71 | 15.64 | 15.57 | 15.46 | 15.38 | 15.31 | 15.25 | 15.17 | 15.08 | 15.01 |
| Open-circuit voltage $V_{oc}$ (V)  | 44.16 | 44.04 | 43.92 | 43.80 | 43.62 | 43.50 | 43.38 | 43.32 | 43.28 | 43.24 | 43.20 |
| Short-circuit current $I_{sc}$ (A) | 16.15 | 16.11 | 16.09 | 16.05 | 15.98 | 15.95 | 15.90 | 15.89 | 15.85 | 15.81 | 15.77 |
| Module efficiency (%)              | 24.39 | 24.18 | 23.98 | 23.78 | 23.57 | 23.37 | 23.17 | 22.96 | 22.76 | 22.56 | 22.35 |
| $P_{max}$ at BNPI (W)              | 660   | 655   | 650   | 644   | 638   | 633   | 627   | 622   | 617   | 611   | 606   |

STC: 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5 · Power tolerance 0 / +5 W ·  $V_{oc}$  and  $I_{sc}$  tolerance ±5% · BNPI: front 1000 W/m<sup>2</sup> + rear 135 W/m<sup>2</sup> · Efficiency per BIS-declared nameplate.

### I-V curves



### P-V curves



## Bifacial output & packaging

**600 W front** +5% 630 · +10% 660 · +15% 690 · +25% 750 W

36 pcs/pallet

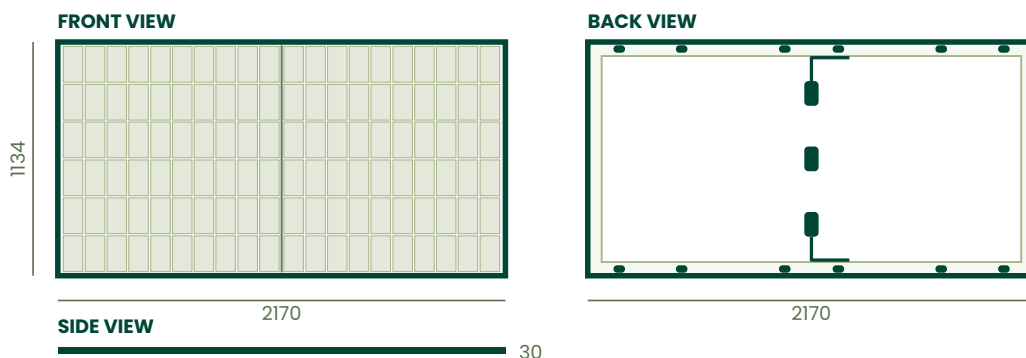
## Mechanical characteristics

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Cell type              | n-Type TOPCon bifacial · G12R<br>182 × 105 mm half-cut · 16BB |
| Cells / arrangement    | 120 half-cut cells · (10×6)×2                                 |
| Dimensions (L × W × H) | 2170 × 1134 × 30 mm                                           |
| Weight                 | 30.5 kg                                                       |
| Front / rear glass     | 2.0 mm AR-coated tempered /<br>2.0 mm tempered                |
| Frame                  | Anodised aluminium alloy                                      |
| Junction box           | IP68 · 3 bypass diodes                                        |
| Connectors             | MC4-compatible · IP68                                         |
| Cable                  | 4 mm <sup>2</sup> PV cable                                    |

## Ratings & temperature characteristics

|                                |                                          |
|--------------------------------|------------------------------------------|
| Temp. coefficient of $P_{max}$ | -0.300 %/°C                              |
| Temp. coefficient of $V_{oc}$  | -0.255 %/°C                              |
| Temp. coefficient of $I_{sc}$  | +0.044 %/°C                              |
| Power bifaciality              | 70% ± 10%                                |
| Operating temperature          | -40 °C to +85 °C                         |
| Max. system voltage            | 1500 V DC                                |
| Max. series fuse               | 35 A                                     |
| Static load, front / rear      | 5400 Pa / 2400 Pa                        |
| Class ratings                  | Safety Class II · Fire Class C           |
| Warranty                       | 12-yr product · 30-yr linear performance |

## Engineering drawings mm · not to scale · 12 × 9×14 mm mounting slots, 6 per long rail



**Certification** · IS 14286 (Part 1/Sec 1) : 2023 · IEC 61215-1-1 : 2021 · IS/IEC 61730-1 : 2023 · IS/IEC 61730-2 : 2023 · BIS licence R-93049670, valid to 13 September 2031 · ALMM List-I · Tested at NABL-accredited laboratory

**Warranty** · 12-year product warranty · 30-year linear performance warranty: ≤1% first-year degradation, ≤0.4% per year thereafter, ≥87.4% of nominal at year 30

**Quality** · 100% electroluminescence inspection pre- and post-lamination · Individual flash-test report shipped with every module · Serialised modules with per-unit test data

Specifications subject to change without notice. All electrical data at STC per BIS-declared nameplate values; refer to the individual module flash report for measured values. I-V and P-V curves are representative, modelled from nameplate parameters. Packaging figures are for standard export packing and may vary with order configuration.

n-Type TOPCon bifacial

Glass-glass dual glass

Up to 23.96% efficiency

1500 V DC

BIS R-93049670

ALMM List-I

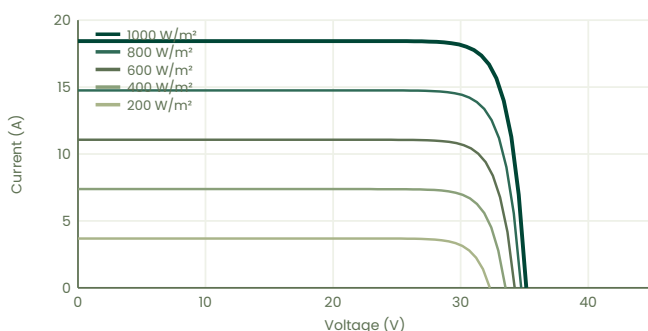
12-yr product · 30-yr performance

## Electrical data — STC & BNPI

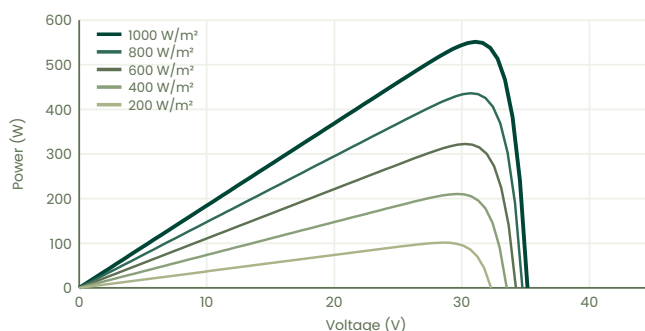
| Rated power $P_{\max}$ (W)         | 550   | 545   | 540   | 535   | 530   | 525   | 520   | 515   | 510   |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Voltage at $P_{\max}$ $V_{mp}$ (V) | 31.49 | 31.30 | 31.08 | 30.81 | 30.56 | 30.31 | 30.06 | 29.78 | 29.52 |
| Current at $P_{\max}$ $I_{mp}$ (A) | 17.47 | 17.43 | 17.40 | 17.38 | 17.36 | 17.34 | 17.32 | 17.30 | 17.29 |
| Open-circuit voltage $V_{oc}$ (V)  | 35.14 | 35.09 | 35.04 | 34.94 | 34.85 | 34.75 | 34.66 | 34.56 | 34.46 |
| Short-circuit current $I_{sc}$ (A) | 18.44 | 18.37 | 18.33 | 18.32 | 18.30 | 18.26 | 18.25 | 18.22 | 18.19 |
| Module efficiency (%)              | 23.96 | 23.76 | 23.55 | 23.32 | 23.11 | 22.89 | 22.68 | 22.44 | 22.23 |
| $P_{\max}$ at BNPI (W)             | 605   | 600   | 595   | 589   | 584   | 578   | 573   | 567   | 561   |

STC: 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5 · Power tolerance 0 / +5 W ·  $V_{oc}$  and  $I_{sc}$  tolerance ±5% · BNPI: front 1000 W/m<sup>2</sup> + rear 135 W/m<sup>2</sup> · Efficiency per BIS-declared nameplate.

### I-V curves



### P-V curves



## Bifacial output & packaging

**550 W front** +5% 578 · +10% 605 · +15% 632 · +25% 688 W

33 pcs/pallet

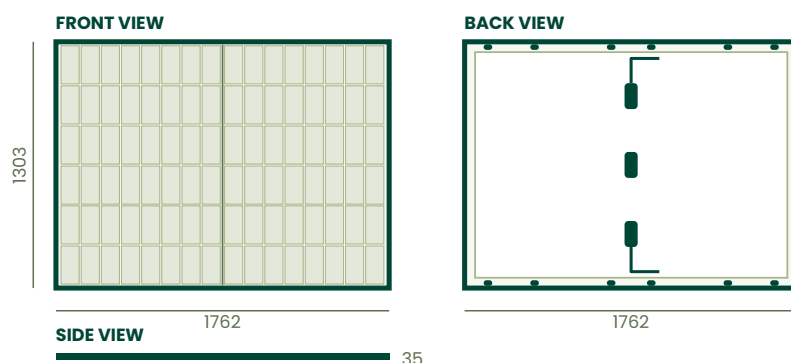
## Mechanical characteristics

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Cell type              | n-Type TOPCon bifacial · G12 210 × 105 mm half-cut · 18BB |
| Cells / arrangement    | 96 half-cut cells · (8×6)×2                               |
| Dimensions (L × W × H) | 1762 × 1303 × 35 mm                                       |
| Weight                 | 28.6 kg                                                   |
| Front / rear glass     | 2.0 mm AR-coated tempered / 2.0 mm tempered               |
| Frame                  | Anodised aluminium alloy                                  |
| Junction box           | IP68 · 3 bypass diodes                                    |
| Connectors             | MC4-compatible · IP68                                     |
| Cable                  | 4 mm <sup>2</sup> PV cable                                |

## Ratings & temperature characteristics

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| Temp. coefficient of P <sub>max</sub> | -0.327 %/°C                              |
| Temp. coefficient of V <sub>oc</sub>  | -0.269 %/°C                              |
| Temp. coefficient of I <sub>sc</sub>  | +0.045 %/°C                              |
| Power bifaciality                     | 70% ± 10%                                |
| Operating temperature                 | -40 °C to +85 °C                         |
| Max. system voltage                   | 1500 V DC                                |
| Max. series fuse                      | 35 A                                     |
| Static load, front / rear             | 5400 Pa / 2400 Pa                        |
| Class ratings                         | Safety Class II · Fire Class C           |
| Warranty                              | 12-yr product · 30-yr linear performance |

## Engineering drawings



**Certification** · IS 14286 (Part 1/Sec 1) : 2023 · IEC 61215-1-1 : 2021 · IS/IEC 61730-1 : 2023 · IS/IEC 61730-2 : 2023 · BIS licence R-93049670, valid to 13 September 2031 · ALMM List-I · Tested at NABL-accredited laboratory

**Warranty** · 12-year product warranty · 30-year linear performance warranty: ≤1% first-year degradation, ≤0.4% per year thereafter, ≥87.4% of nominal at year 30

**Quality** · 100% electroluminescence inspection pre- and post-lamination · Individual flash-test report shipped with every module · Serialised modules with per-unit test data

Specifications subject to change without notice. All electrical data at STC per BIS-declared nameplate values; refer to the individual module flash report for measured values. I-V and P-V curves are representative, modelled from nameplate parameters. Packaging figures are for standard export packing and may vary with order configuration.

n-Type TOPCon bifacial

Glass-glass dual glass

Up to 24.32% efficiency

1500 V DC

BIS R-93049670

ALMM List-I

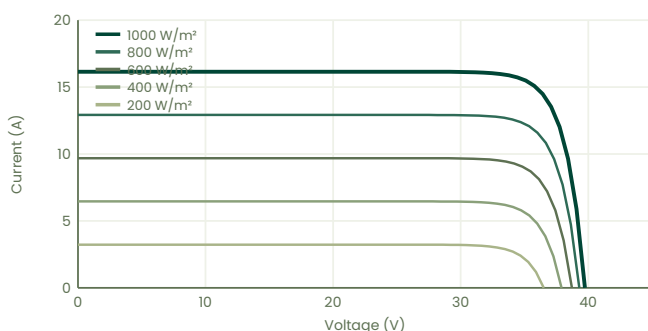
12-yr product · 30-yr performance

## Electrical data — STC & BNPI

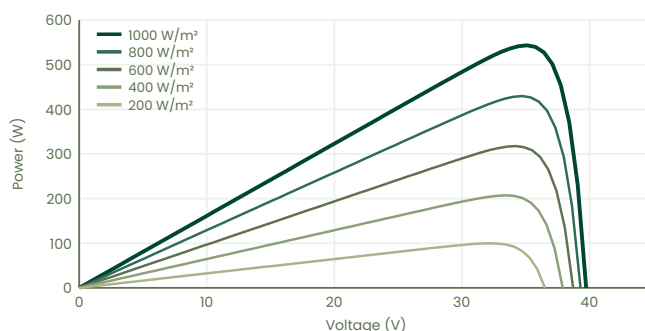
| Rated power $P_{max}$ (W)          | 540   | 535   | 530   | 525   | 520   | 515   | 510   | 505   | 500   |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Voltage at $P_{max}$ $V_{mp}$ (V)  | 34.24 | 34.10 | 34.00 | 33.86 | 33.68 | 33.59 | 33.41 | 33.31 | 33.20 |
| Current at $P_{max}$ $I_{mp}$ (A)  | 15.78 | 15.71 | 15.60 | 15.53 | 15.46 | 15.35 | 15.27 | 15.18 | 15.07 |
| Open-circuit voltage $V_{oc}$ (V)  | 39.74 | 39.64 | 39.47 | 39.37 | 39.26 | 39.10 | 38.99 | 38.90 | 38.84 |
| Short-circuit current $I_{sc}$ (A) | 16.15 | 16.11 | 16.07 | 16.02 | 15.98 | 15.92 | 15.89 | 15.83 | 15.78 |
| Module efficiency (%)              | 24.32 | 24.09 | 23.87 | 23.64 | 23.42 | 23.19 | 22.97 | 22.74 | 22.52 |
| $P_{max}$ at BNPI (W)              | 594   | 589   | 583   | 578   | 573   | 567   | 561   | 556   | 550   |

STC: 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5 · Power tolerance 0 / +5 W ·  $V_{oc}$  and  $I_{sc}$  tolerance ±5% · BNPI: front 1000 W/m<sup>2</sup> + rear 135 W/m<sup>2</sup> · Efficiency per BIS-declared nameplate.

### I-V curves



### P-V curves



## Bifacial output & packaging

**540 W front** +5% 567 · +10% 594 · +15% 621 · +25% 675 W

36 pcs/pallet

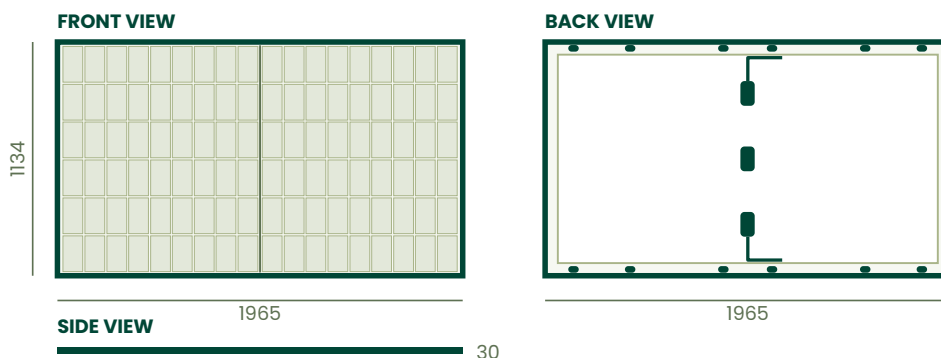
## Mechanical characteristics

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Cell type              | n-Type TOPCon bifacial · G12R<br>182 × 105 mm half-cut · 16BB |
| Cells / arrangement    | 108 half-cut cells · (9×6)×2                                  |
| Dimensions (L × W × H) | 1965 × 1134 × 30 mm                                           |
| Weight                 | 27.5 kg                                                       |
| Front / rear glass     | 2.0 mm AR-coated tempered /<br>2.0 mm tempered                |
| Frame                  | Anodised aluminium alloy                                      |
| Junction box           | IP68 · 3 bypass diodes                                        |
| Connectors             | MC4-compatible · IP68                                         |
| Cable                  | 4 mm <sup>2</sup> PV cable                                    |

## Ratings & temperature characteristics

|                                |                                          |
|--------------------------------|------------------------------------------|
| Temp. coefficient of $P_{max}$ | -0.300 %/°C                              |
| Temp. coefficient of $V_{oc}$  | -0.255 %/°C                              |
| Temp. coefficient of $I_{sc}$  | +0.044 %/°C                              |
| Power bifaciality              | 70% ± 10%                                |
| Operating temperature          | -40 °C to +85 °C                         |
| Max. system voltage            | 1500 V DC                                |
| Max. series fuse               | 35 A                                     |
| Static load, front / rear      | 5400 Pa / 2400 Pa                        |
| Class ratings                  | Safety Class II · Fire Class C           |
| Warranty                       | 12-yr product · 30-yr linear performance |

## Engineering drawings mm · not to scale · 12 × 9×14 mm mounting slots, 6 per long rail



**Certification** · IS 14286 (Part 1/Sec 1) : 2023 · IEC 61215-1-1 : 2021 · IS/IEC 61730-1 : 2023 · IS/IEC 61730-2 : 2023 · BIS licence R-93049670, valid to 13 September 2031 · ALMM List-I · Tested at NABL-accredited laboratory

**Warranty** · 12-year product warranty · 30-year linear performance warranty: ≤1% first-year degradation, ≤0.4% per year thereafter, ≥87.4% of nominal at year 30

**Quality** · 100% electroluminescence inspection pre- and post-lamination · Individual flash-test report shipped with every module · Serialised modules with per-unit test data

Specifications subject to change without notice. All electrical data at STC per BIS-declared nameplate values; refer to the individual module flash report for measured values. I-V and P-V curves are representative, modelled from nameplate parameters. Packaging figures are for standard export packing and may vary with order configuration.

# 03

## Residential & small systems

Homes, PM Surya Ghar rooftops, solar pumps and small standalone systems, where module size and weight decide what is practical.

| FAMILY      | POWER RANGE | BINS | DIMENSIONS     | PLATFORM        |
|-------------|-------------|------|----------------|-----------------|
| SS96GTG-480 | 450-480 W   | 7    | 1762 × 1134 mm | 96 cells · G12R |
| SS84GTG-480 | 445-480 W   | 8    | 1544 × 1303 mm | 84 cells · G12  |
| SS84GTG-420 | 395-420 W   | 6    | 1544 × 1134 mm | 84 cells · G12R |

395-480 W · 3 families · 21 power bins

n-Type TOPCon bifacial

Glass-glass dual glass

Up to 24.12% efficiency

1500 V DC

BIS R-93049670

ALMM List-I

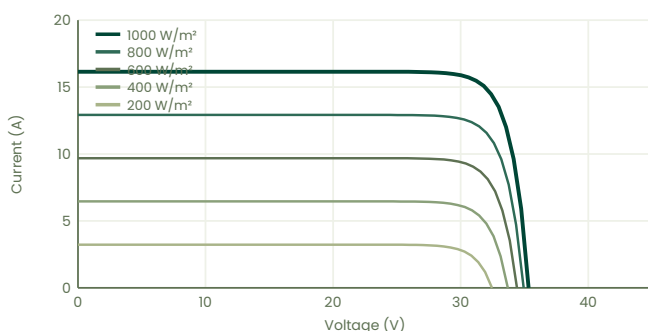
12-yr product · 30-yr performance

## Electrical data — STC & BNPI

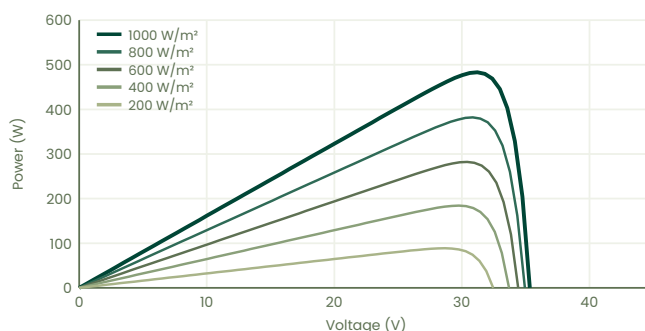
| Rated power $P_{max}$ (W)          | 480   | 475   | 470   | 465   | 460   | 455   | 450   |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Voltage at $P_{max}$ $V_{mp}$ (V)  | 30.43 | 30.33 | 30.14 | 30.05 | 29.90 | 29.81 | 29.64 |
| Current at $P_{max}$ $I_{mp}$ (A)  | 15.78 | 15.67 | 15.60 | 15.49 | 15.38 | 15.27 | 15.21 |
| Open-circuit voltage $V_{oc}$ (V)  | 35.33 | 35.10 | 35.09 | 34.94 | 34.80 | 34.66 | 34.61 |
| Short-circuit current $I_{sc}$ (A) | 16.15 | 16.10 | 16.07 | 16.00 | 15.95 | 15.89 | 15.84 |
| Module efficiency (%)              | 24.12 | 23.86 | 23.61 | 23.36 | 23.11 | 22.86 | 22.61 |
| $P_{max}$ at BNPI (W)              | 528   | 523   | 517   | 512   | 506   | 501   | 496   |

STC: 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5 · Power tolerance 0 / +5 W ·  $V_{oc}$  and  $I_{sc}$  tolerance ±5% · BNPI: front 1000 W/m<sup>2</sup> + rear 135 W/m<sup>2</sup> · Efficiency per BIS-declared nameplate.

### I-V curves



### P-V curves



## Bifacial output & packaging

**480 W front** +5% 504 · +10% 528 · +15% 552 · +25% 600 W

36 pcs/pallet

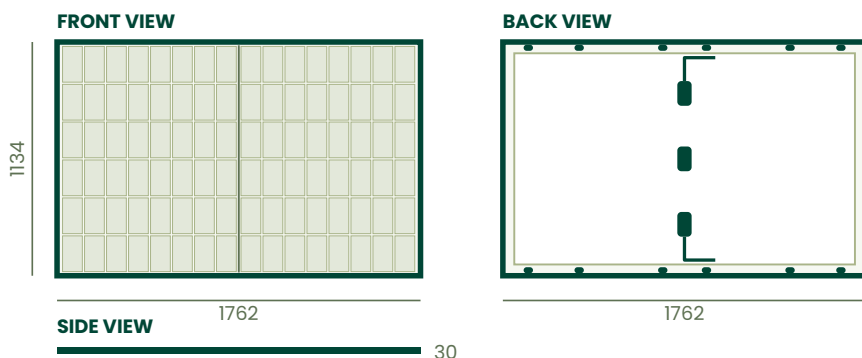
## Mechanical characteristics

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Cell type              | n-Type TOPCon bifacial · G12R<br>182 × 105 mm half-cut · 16BB |
| Cells / arrangement    | 96 half-cut cells · (8×6)×2                                   |
| Dimensions (L × W × H) | 1762 × 1134 × 30 mm                                           |
| Weight                 | 24.5 kg                                                       |
| Front / rear glass     | 2.0 mm AR-coated tempered /<br>2.0 mm tempered                |
| Frame                  | Anodised aluminium alloy                                      |
| Junction box           | IP68 · 3 bypass diodes                                        |
| Connectors             | MC4-compatible · IP68                                         |
| Cable                  | 4 mm <sup>2</sup> PV cable                                    |

## Ratings & temperature characteristics

|                                       |                                          |
|---------------------------------------|------------------------------------------|
| Temp. coefficient of P <sub>max</sub> | -0.300 %/°C                              |
| Temp. coefficient of V <sub>oc</sub>  | -0.255 %/°C                              |
| Temp. coefficient of I <sub>sc</sub>  | +0.044 %/°C                              |
| Power bifaciality                     | 70% ± 10%                                |
| Operating temperature                 | -40 °C to +85 °C                         |
| Max. system voltage                   | 1500 V DC                                |
| Max. series fuse                      | 35 A                                     |
| Static load, front / rear             | 5400 Pa / 2400 Pa                        |
| Class ratings                         | Safety Class II · Fire Class C           |
| Warranty                              | 12-yr product · 30-yr linear performance |

## Engineering drawings mm · not to scale · 12 × 9×14 mm mounting slots, 6 per long rail



**Certification** · IS 14286 (Part 1/Sec 1) : 2023 · IEC 61215-1-1 : 2021 · IS/IEC 61730-1 : 2023 · IS/IEC 61730-2 : 2023 · BIS licence R-93049670, valid to 13 September 2031 · ALMM List-I · Tested at NABL-accredited laboratory

**Warranty** · 12-year product warranty · 30-year linear performance warranty: ≤1% first-year degradation, ≤0.4% per year thereafter, ≥87.4% of nominal at year 30

**Quality** · 100% electroluminescence inspection pre- and post-lamination · Individual flash-test report shipped with every module · Serialised modules with per-unit test data

Specifications subject to change without notice. All electrical data at STC per BIS-declared nameplate values; refer to the individual module flash report for measured values. I-V and P-V curves are representative, modelled from nameplate parameters. Packaging figures are for standard export packing and may vary with order configuration.

n-Type TOPCon bifacial

Glass-glass dual glass

Up to 23.89% efficiency

1500 V DC

BIS R-93049670

ALMM List-I

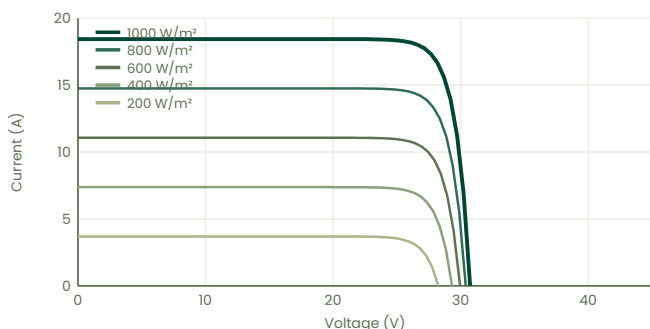
12-yr product · 30-yr performance

## Electrical data — STC & BNPI

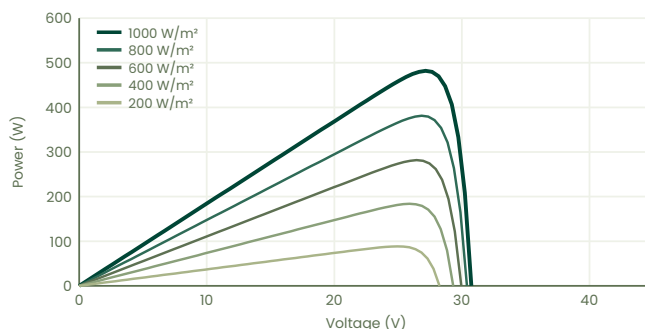
| Rated power $P_{\max}$ (W)         | 480   | 475   | 470   | 465   | 460   | 455   | 450   | 445   |
|------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Voltage at $P_{\max}$ $V_{mp}$ (V) | 27.53 | 27.28 | 26.99 | 26.73 | 26.51 | 26.23 | 25.97 | 25.78 |
| Current at $P_{\max}$ $I_{mp}$ (A) | 17.46 | 17.43 | 17.42 | 17.41 | 17.38 | 17.36 | 17.34 | 17.29 |
| Open-circuit voltage $V_{oc}$ (V)  | 30.74 | 30.70 | 30.62 | 30.49 | 30.41 | 30.32 | 30.24 | 30.16 |
| Short-circuit current $I_{sc}$ (A) | 18.44 | 18.35 | 18.32 | 18.30 | 18.26 | 18.25 | 18.22 | 18.19 |
| Module efficiency (%)              | 23.89 | 23.63 | 23.37 | 23.13 | 22.90 | 22.63 | 22.38 | 22.16 |
| $P_{\max}$ at BNPI (W)             | 529   | 523   | 517   | 512   | 507   | 501   | 495   | 490   |

STC: 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5 · Power tolerance 0 / +5 W ·  $V_{oc}$  and  $I_{sc}$  tolerance ±5% · BNPI: front 1000 W/m<sup>2</sup> + rear 135 W/m<sup>2</sup> · Efficiency per BIS-declared nameplate.

### I-V curves



### P-V curves



## Bifacial output & packaging

**480 W front** +5% 504 · +10% 528 · +15% 552 · +25% 600 W

33 pcs/pallet

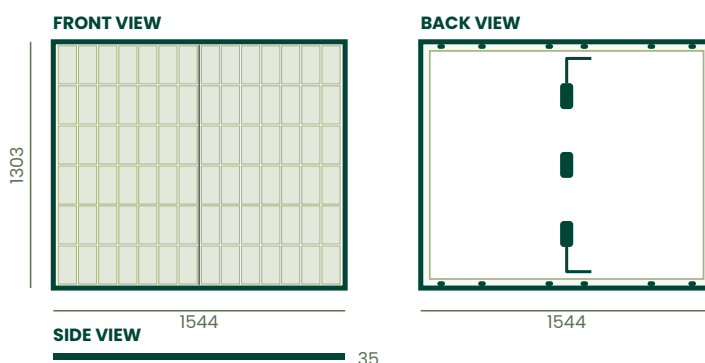
## Mechanical characteristics

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Cell type              | n-Type TOPCon bifacial · G12 210 × 105 mm half-cut · 18BB |
| Cells / arrangement    | 84 half-cut cells · (7×6)×2                               |
| Dimensions (L × W × H) | 1544 × 1303 × 35 mm                                       |
| Weight                 | 25.0 kg                                                   |
| Front / rear glass     | 2.0 mm AR-coated tempered / 2.0 mm tempered               |
| Frame                  | Anodised aluminium alloy                                  |
| Junction box           | IP68 · 3 bypass diodes                                    |
| Connectors             | MC4-compatible · IP68                                     |
| Cable                  | 4 mm <sup>2</sup> PV cable                                |

## Ratings & temperature characteristics

|                                |                                          |
|--------------------------------|------------------------------------------|
| Temp. coefficient of $P_{max}$ | -0.327 %/°C                              |
| Temp. coefficient of $V_{oc}$  | -0.269 %/°C                              |
| Temp. coefficient of $I_{sc}$  | +0.045 %/°C                              |
| Power bifaciality              | 70% ± 10%                                |
| Operating temperature          | -40 °C to +85 °C                         |
| Max. system voltage            | 1500 V DC                                |
| Max. series fuse               | 35 A                                     |
| Static load, front / rear      | 5400 Pa / 2400 Pa                        |
| Class ratings                  | Safety Class II · Fire Class C           |
| Warranty                       | 12-yr product · 30-yr linear performance |

## Engineering drawings



**Certification** · IS 14286 (Part 1/Sec 1) : 2023 · IEC 61215-1-1 : 2021 · IS/IEC 61730-1 : 2023 · IS/IEC 61730-2 : 2023 · BIS licence R-93049670, valid to 13 September 2031 · ALMM List-I · Tested at NABL-accredited laboratory

**Warranty** · 12-year product warranty · 30-year linear performance warranty: ≤1% first-year degradation, ≤0.4% per year thereafter, ≥87.4% of nominal at year 30

**Quality** · 100% electroluminescence inspection pre- and post-lamination · Individual flash-test report shipped with every module · Serialised modules with per-unit test data

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n-Type TOPCon bifacial

Glass-glass dual glass

Up to 24.00% efficiency

1500 V DC

BIS R-93049670

ALMM List-I

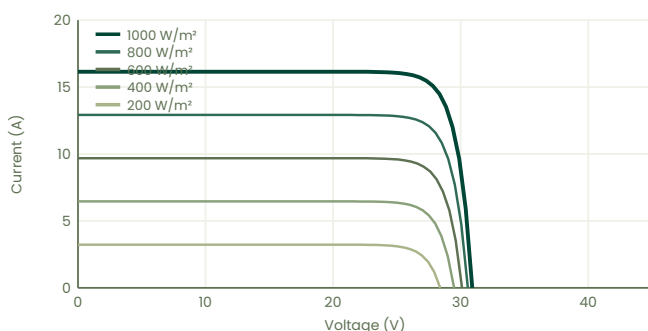
12-yr product · 30-yr performance

## Electrical data — STC & BNPI

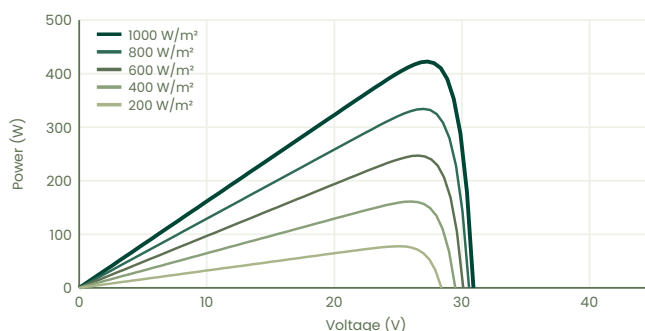
| Rated power $P_{\max}$ (W)         | 420   | 415   | 410   | 405   | 400   | 395   |
|------------------------------------|-------|-------|-------|-------|-------|-------|
| Voltage at $P_{\max}$ $V_{mp}$ (V) | 26.63 | 26.50 | 26.38 | 26.25 | 26.15 | 26.10 |
| Current at $P_{\max}$ $I_{mp}$ (A) | 15.78 | 15.67 | 15.57 | 15.46 | 15.31 | 15.16 |
| Open-circuit voltage $V_{oc}$ (V)  | 30.91 | 30.79 | 30.66 | 30.53 | 30.37 | 30.32 |
| Short-circuit current $I_{sc}$ (A) | 16.15 | 16.10 | 16.05 | 15.98 | 15.90 | 15.88 |
| Module efficiency (%)              | 24.00 | 23.71 | 23.42 | 23.14 | 22.85 | 22.57 |
| $P_{\max}$ at BNPI (W)             | 462   | 457   | 452   | 446   | 440   | 435   |

STC: 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM 1.5 · Power tolerance 0 / +5 W ·  $V_{oc}$  and  $I_{sc}$  tolerance ±5% · BNPI: front 1000 W/m<sup>2</sup> + rear 135 W/m<sup>2</sup> · Efficiency per BIS-declared nameplate.

### I-V curves



### P-V curves



## Bifacial output & packaging

**420 W front** +5% 441 · +10% 462 · +15% 483 · +25% 525 W

40 pcs/pallet

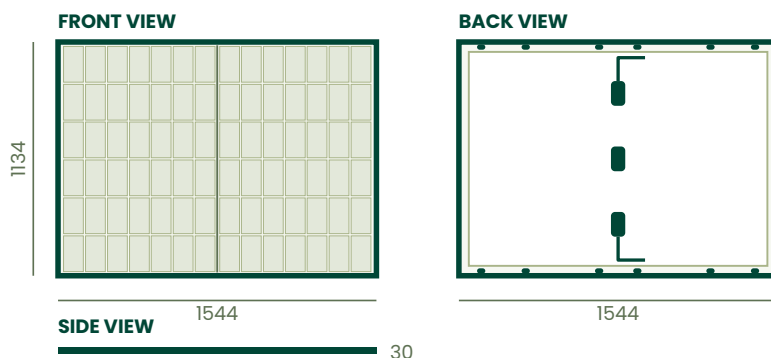
## Mechanical characteristics

|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| Cell type              | n-Type TOPCon bifacial · G12R<br>182 × 105 mm half-cut · 16BB |
| Cells / arrangement    | 84 half-cut cells · (7×6)×2                                   |
| Dimensions (L × W × H) | 1544 × 1134 × 30 mm                                           |
| Weight                 | 21.5 kg                                                       |
| Front / rear glass     | 2.0 mm AR-coated tempered /<br>2.0 mm tempered                |
| Frame                  | Anodised aluminium alloy                                      |
| Junction box           | IP68 · 3 bypass diodes                                        |
| Connectors             | MC4-compatible · IP68                                         |
| Cable                  | 4 mm <sup>2</sup> PV cable                                    |

## Ratings & temperature characteristics

|                                |                                          |
|--------------------------------|------------------------------------------|
| Temp. coefficient of $P_{max}$ | -0.300 %/°C                              |
| Temp. coefficient of $V_{oc}$  | -0.255 %/°C                              |
| Temp. coefficient of $I_{sc}$  | +0.044 %/°C                              |
| Power bifaciality              | 70% ± 10%                                |
| Operating temperature          | -40 °C to +85 °C                         |
| Max. system voltage            | 1500 V DC                                |
| Max. series fuse               | 35 A                                     |
| Static load, front / rear      | 5400 Pa / 2400 Pa                        |
| Class ratings                  | Safety Class II · Fire Class C           |
| Warranty                       | 12-yr product · 30-yr linear performance |

## Engineering drawings



**Certification** · IS 14286 (Part 1/Sec 1) : 2023 · IEC 61215-1-1 : 2021 · IS/IEC 61730-1 : 2023 · IS/IEC 61730-2 : 2023 · BIS licence R-93049670, valid to 13 September 2031 · ALMM List-I · Tested at NABL-accredited laboratory

**Warranty** · 12-year product warranty · 30-year linear performance warranty: ≤1% first-year degradation, ≤0.4% per year thereafter, ≥87.4% of nominal at year 30

**Quality** · 100% electroluminescence inspection pre- and post-lamination · Individual flash-test report shipped with every module · Serialised modules with per-unit test data

Specifications subject to change without notice. All electrical data at STC per BIS-declared nameplate values; refer to the individual module flash report for measured values. I-V and P-V curves are representative, modelled from nameplate parameters. Packaging figures are for standard export packing and may vary with order configuration.