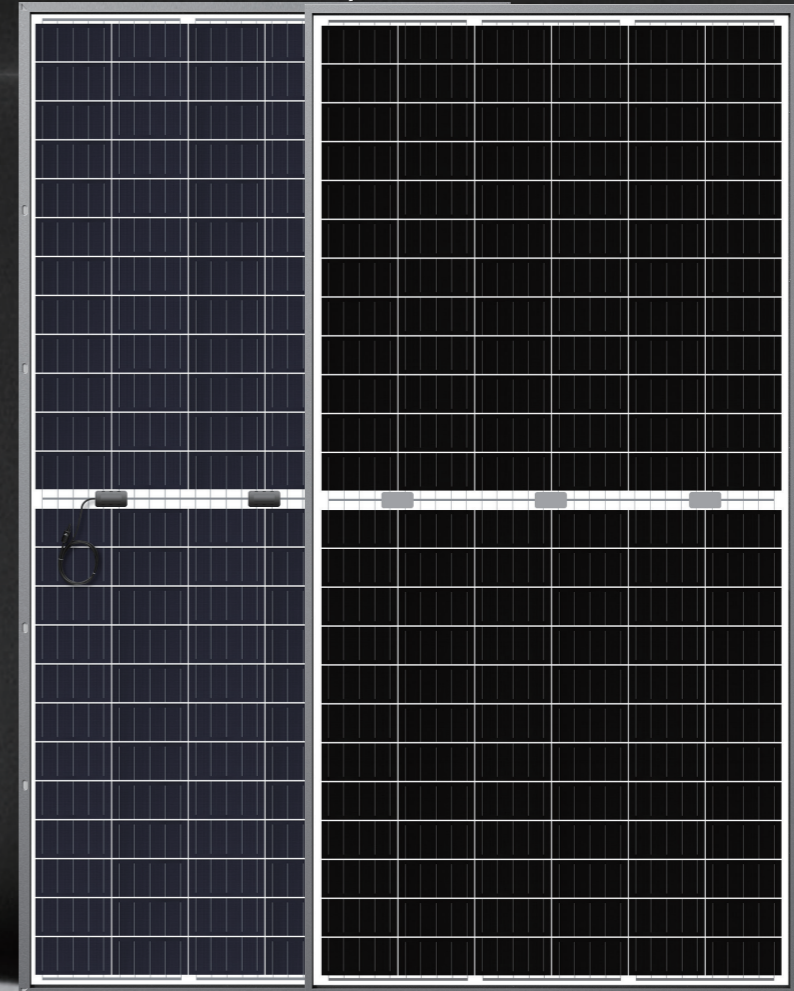




# BLADE™ BIFACIAL

Pursue More, Achieve More



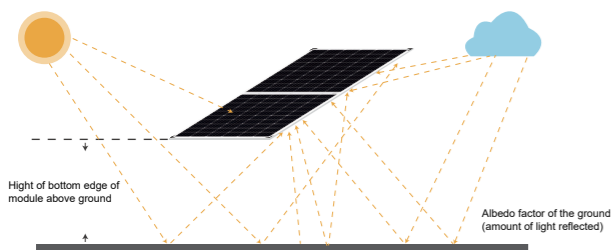
**390W-405W**

Seraphim's new half-cell bifacial module combines high-efficiency bifacial technology with proven half-cell technology, using incidental light from both the front and rear side of each cell. Yields up to 30% more energy from back side power generation, depending on the albedo/reflectivity of each individual project site.



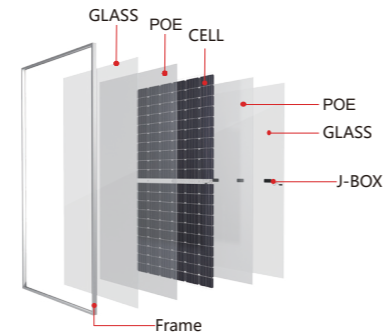
### Maximum Power Output

Uses reflected and scattered light to increase energy generation by an additional 10-30%.

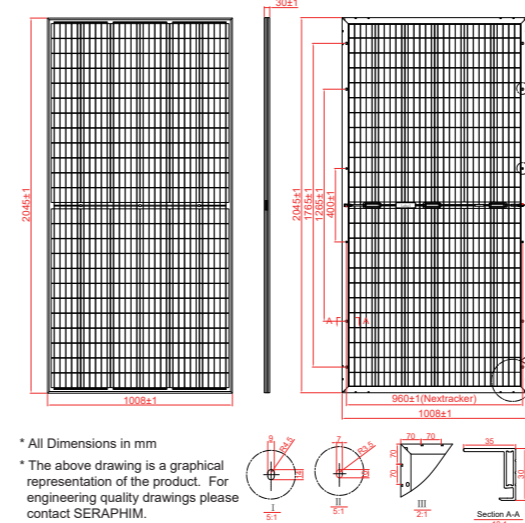


### Upgraded Module Design

A lighter, 2.0mm tempered AR-coated glass was selected to maintain the same snow and wind load as standard modules, while reducing transportation costs and installation difficulty.



### Technical drawing



\* All Dimensions in mm  
 \* The above drawing is a graphical representation of the product. For engineering quality drawings please contact SERAPHIM.

### Mechanical Specifications

|                    |   |
|--------------------|---|
| External Dimension | 2045 x 1008 x 30mm  |
| Weight             | 26.5kg  |
| Solar Cells        | PERC Mono crystalline 158.75 x 79.375 mm (144pcs)                 |
| Front / Back Glass | 2.0mm AR coating semi-tempered glass, low iron                    |
| Frame              | Anodized aluminium alloy  |
| Junction Box       | IP68, 3 diodes  |
| Output Cables      | 4.0 mm <sup>2</sup> , Portrait:255mm(+)/355mm(-);Landscape:1200mm |
| Connector          | MC4 Compatible  |

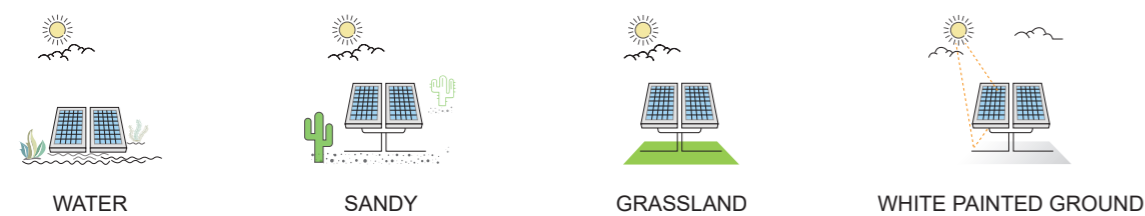
### Packing Configuration

|                       |       |
|-----------------------|-------|
| Container             | 40'HQ |
| Pieces per Pallet     | 30    |
| Pallets per Container | 22    |
| Pieces per Container  | 660   |

### More Benefits

- Higher Durability and Reliability
- Enhanced safety by excellent fire resistance
- Dual-glass structure minimizes micro-cracks, snail trails, and UV aging
- Lower internal current, lower mismatch loss
- Lower power degradation, more power yield, more returns
- Unique circuit design, better shading tolerance.

### Perfect for Highly—reflective Project Sites



### Electrical Characteristics

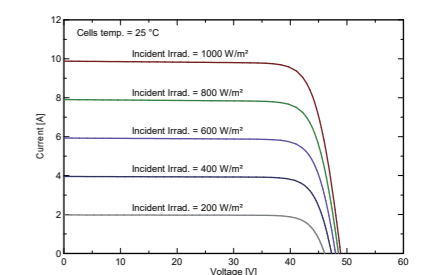
| Module Type                                | SRP-390-BMA-BG |      | SRP-395-BMA-BG |      | SRP-400-BMA-BG |      | SRP-405-BMA-BG |      |
|--|----------------|------|----------------|------|----------------|------|----------------|------|
|  | Front          | Back | Front          | Back | Front          | Back | Front          | Back |
| STC  |                |      |                |      |                |      |                |      |
| Maximum Power -P <sub>mp</sub> (W)         | 390            | 292  | 395            | 296  | 400            | 300  | 405            | 304  |
| Open Circuit Voltage -V <sub>oc</sub> (V)  | 49.1           | 48.7 | 49.3           | 48.9 | 49.5           | 49.1 | 49.7           | 49.3 |
| Short Circuit Current -I <sub>sc</sub> (A) | 9.96           | 7.44 | 10.04          | 7.49 | 10.12          | 7.55 | 10.19          | 7.61 |
| Maximum Power Voltage -V <sub>mp</sub> (V) | 41.3           | 41.4 | 41.5           | 41.6 | 41.7           | 41.8 | 41.9           | 42.0 |
| Maximum Power Current -I <sub>mp</sub> (A) | 9.45           | 7.06 | 9.52           | 7.12 | 9.60           | 7.18 | 9.67           | 7.24 |
| Module Efficiency STC-η <sub>m</sub> (%)   | 18.92          |      | 19.16          |      | 19.40          |      | 19.65          |      |
| Power Tolerance (W)                        | (0, +4.99)     |      |                |      |                |      |                |      |
| Pmax Temperature Coefficient               | -0.36 %/°C     |      |                |      |                |      |                |      |
| Voc Temperature Coefficient                | -0.28 %/°C     |      |                |      |                |      |                |      |
| Isc Temperature Coefficient                | +0.05 %/°C     |      |                |      |                |      |                |      |

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5

### Rear Side Power Gain(SRP-400-BMA-BG)

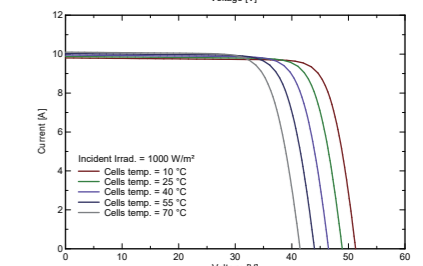
| Power Gain                                 | 10%   | 15%   | 20%   | 25%   | 30%   |
|--|-------|-------|-------|-------|-------|
| Maximum Power -P <sub>mp</sub> (W)         | 440   | 460   | 480   | 500   | 520   |
| Open Circuit Voltage -V <sub>oc</sub> (V)  | 49.5  | 49.5  | 49.5  | 49.5  | 49.5  |
| Short Circuit Current -I <sub>sc</sub> (A) | 11.14 | 11.65 | 12.15 | 12.65 | 13.15 |
| Maximum Power Voltage -V <sub>mp</sub> (V) | 41.7  | 41.7  | 41.7  | 41.7  | 41.7  |
| Maximum Power Current -I <sub>mp</sub> (A) | 10.56 | 11.04 | 11.52 | 11.99 | 12.47 |

### I-V Curve



### Application Conditions

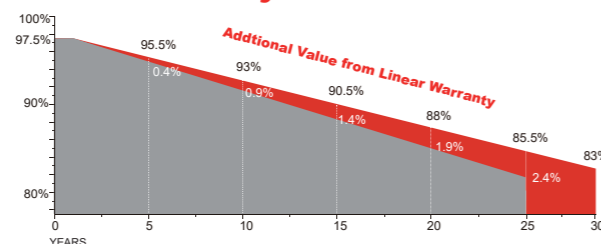
|                                    |            |
|------------------------------------|------------|
| Maximum System Voltage             | 1500VDC    |
| Maximum Series Fuse Rating         | 20A        |
| Operating Temperature              | -40~+85 °C |
| Nominal Operating Cell Temperature | 45±2       |
| Bifaciality                        | 70%±5%     |
| Mechanical Load                    | 5400Pa     |



### Certifications



### Warranty



**15 YEARS** Guarantee on product material and workmanship

**30 YEARS** linear power output warranty