

## Heterojunction PB-Alpha Series Bifacial Module

**PB-Alpha132-8-720-745**

## Hyper-link Interconnection

Patented Technology

**720-745 W<sub>p</sub>**

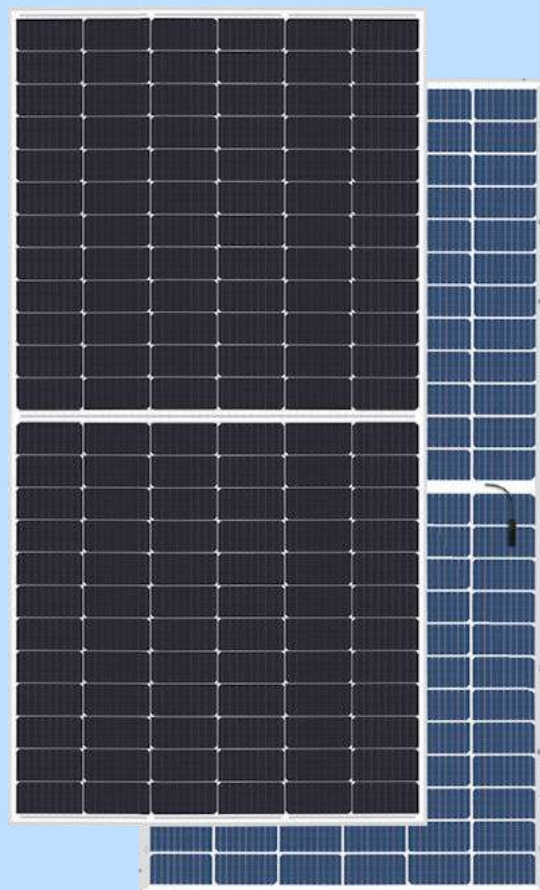
Power Output Range

**24.0 %**

Higher Efficiency

**0~+3%**

Positive Power Tolerance



The module picture is for reference only



No B-O caused LID



Ultra-high bifacial factor



Ultra-high power generation, ultra-low carbon emission



Most stable power temperature coefficient



Lead technology of metallization process



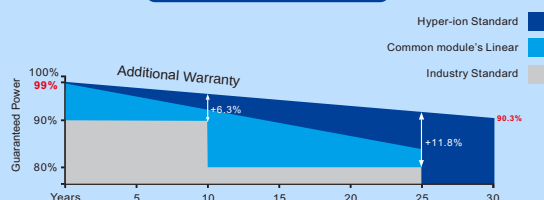
Excellent anti-LID & anti-PID performance



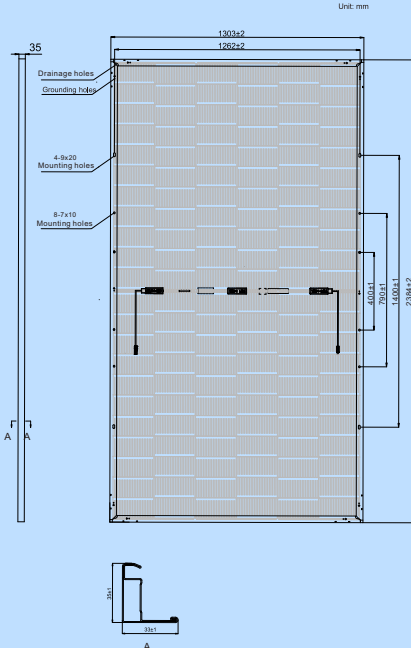
### LINEAR PERFORMANCE WARRANTY

15 years product warranty / 30 years linear power warranty

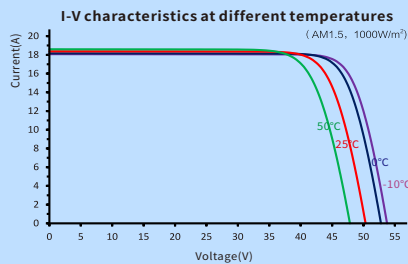
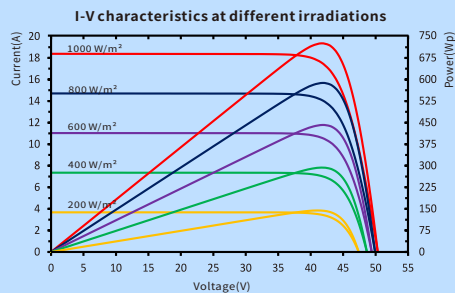
0.3% Annual Degradation over 30 years



## Dimensions of PV Module



\*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.



## PACKAGING CONFIGURATION

|                                        |                |
|----------------------------------------|----------------|
|                                        | 40ft(HQ)       |
| Number of modules per container        | 558            |
| Number of modules per pallet           | 31             |
| Number of pallets per container        | 18             |
| Packaging box dimensions (LxWxH) in mm | 1320×1120×2520 |
| Box gross weight[kg]                   | 1284           |

## ELECTRICAL DATA (STC)

| Model Type                    | PB-Alpha132-8-720-745 |       |       |       |       |       |
|-------------------------------|-----------------------|-------|-------|-------|-------|-------|
| Rated Power in Watts-Pmax(Wp) | 720                   | 725   | 730   | 735   | 740   | 745   |
| Open Circuit Voltage-Voc(V)   | 50.18                 | 50.26 | 50.33 | 50.40 | 50.47 | 50.54 |
| Short Circuit Current-Isc(A)  | 18.19                 | 18.29 | 18.38 | 18.47 | 18.56 | 18.65 |
| Maximum Power Voltage-Vmpp(V) | 42.08                 | 42.14 | 42.20 | 42.26 | 42.32 | 42.38 |
| Maximum Power Current-Impp(A) | 17.13                 | 17.23 | 17.32 | 17.41 | 17.50 | 17.59 |
| Module Efficiency (%) *       | 23.2                  | 23.3  | 23.5  | 23.7  | 23.8  | 24.0  |

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

Bifacial factor: 90±5(%) \* Module Efficiency (%): Rounding to the nearest number

## ELECTRICAL DATA (BNPI)

| Model Type                     | PB-Alpha132-8-720-745 |       |       |       |       |       |
|--------------------------------|-----------------------|-------|-------|-------|-------|-------|
| Maximum Power-Pmax (Wp)        | 807                   | 813   | 818   | 824   | 830   | 835   |
| Open Circuit Voltage-Voc (V)   | 50.18                 | 50.26 | 50.33 | 50.40 | 50.47 | 50.54 |
| Short Circuit Current-Isc (A)  | 20.39                 | 20.50 | 20.60 | 20.70 | 20.81 | 20.91 |
| Maximum Power Voltage-Vmpp (V) | 42.08                 | 42.14 | 42.20 | 42.26 | 42.32 | 42.38 |
| Maximum Power Current-Impp (A) | 19.18                 | 19.29 | 19.39 | 19.50 | 19.60 | 19.71 |

BNPI: Front side irradiance 1000 W/m<sup>2</sup>, Rear side irradiance 135 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.

Power measurement tolerance: ±3%

## Electrical characteristics with 10% rear side power gain

|                                   |       |       |       |       |       |       |
|-----------------------------------|-------|-------|-------|-------|-------|-------|
| Total Equivalent power -Pmax (Wp) | 792   | 798   | 803   | 809   | 814   | 820   |
| Open Circuit Voltage-Voc(V)       | 50.18 | 50.26 | 50.33 | 50.40 | 50.47 | 50.54 |
| Short Circuit Current-Isc(A)      | 20.01 | 20.12 | 20.22 | 20.32 | 20.42 | 20.52 |
| Maximum Power Voltage-Vmpp(V)     | 42.08 | 42.14 | 42.20 | 42.26 | 42.32 | 42.38 |
| Maximum Power Current-Impp(A)     | 18.84 | 18.95 | 19.05 | 19.15 | 19.25 | 19.35 |

Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

## MECHANICAL DATA

|                              |                                                                                                      |
|------------------------------|------------------------------------------------------------------------------------------------------|
| Solar cells                  | n-type HJT                                                                                           |
| Cell configuration           | 132 cells (6×11+6×11)                                                                                |
| Module dimensions            | 2384×1303×35mm (93.86×51.30×1.38 in)                                                                 |
| Weight                       | 40kg (88.18 lb)                                                                                      |
| Superstrate                  | 2.0mm(0.08in), High Transmission, AR Coated Heat Strengthened Glass                                  |
| Substrate                    | 2.0mm(0.08in), Heat Strengthened Glass                                                               |
| Frame                        | High strength alloy steel                                                                            |
| J-Box                        | Potted, IP68, 1500VDC, 3 Schottky bypass diodes                                                      |
| Cables                       | 4.0mm <sup>2</sup> , 350mm(13.78 in)(+), 230mm(9.06 in)(-), connector Included, or customized length |
| Connector                    | PV-SY02/Others                                                                                       |
| Maximum mechanical test load | 5400 Pa (front) / 2400 Pa (back), under certain installation method                                  |

## TEMPERATURE & MAXIMUM RATINGS

|                                             |             |
|---------------------------------------------|-------------|
| Nominal Module Operating Temperature (NMOT) | 43°C±2°C    |
| Temperature Coefficient of Voc              | -0.22%/°C   |
| Temperature Coefficient of Isc              | 0.047%/°C   |
| Temperature Coefficient of Pmax             | -0.24%/°C   |
| Operational Temperature                     | -40°C~+85°C |
| Maximum System Voltage                      | 1500VDC     |
| Max Series Fuse Rating                      | 35A         |
| Limiting Reverse Current                    | 35A         |



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