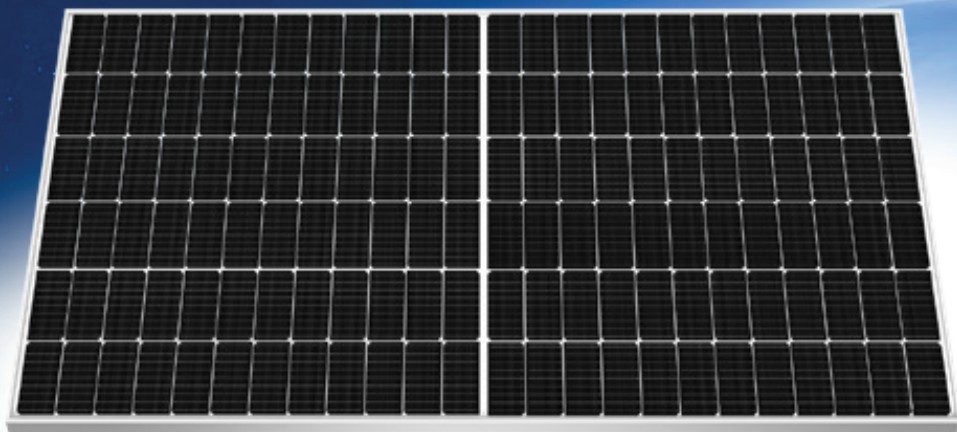




### Features



#### High module conversion efficiency

MBB Half Cell Technology, Module efficiency up to 21.68%.



#### Withstands Harsh Environments

Deep black, uniform layout for improved aesthetics.



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### Low System Cost

High module efficiency, reducing system cost.



#### Low Shading Loss

Full parallel arrangement brings high effective power generation hours.



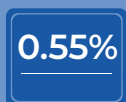
#### The ideal solution for:

Rooftop arrays on commercial industrial buildings.



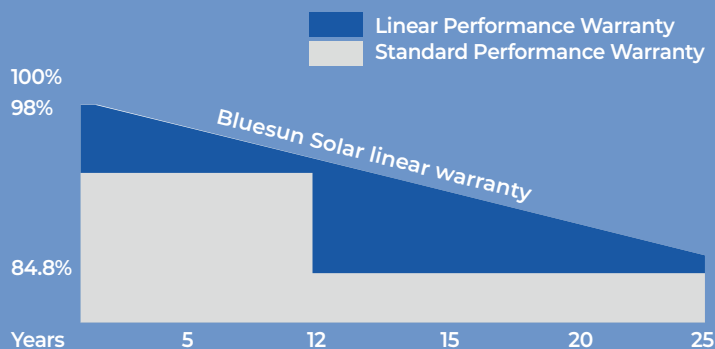
Ground-mounted solar power plants.

### PERFORMANCE WARRANTY



Annual Degradation Over 25 years no more than 0.55%

Founded in 2004, Bluesun is a leading photovoltaic manufacturer dedicated to the research, development, and production of crystalline silicon solar cells and modules for 17 years. The company has sales in over 100 countries and regions worldwide, with cumulative historical shipments exceeding 12 GW.



\*According to the applicable Bluesun Solar Limited Warranty Statement.

### MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental

ISO 45001: 2018 / International standards for occupational health & safety

### PRODUCT CERTIFICATES

IEC 61215 / IEC 61730 / CE



## SPECIFICATIONS

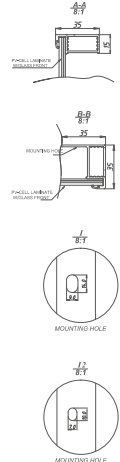
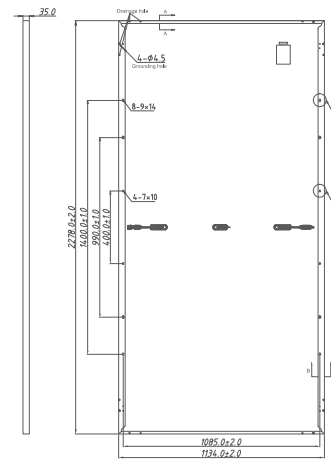
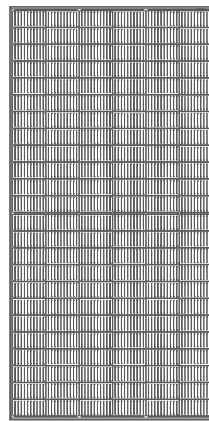
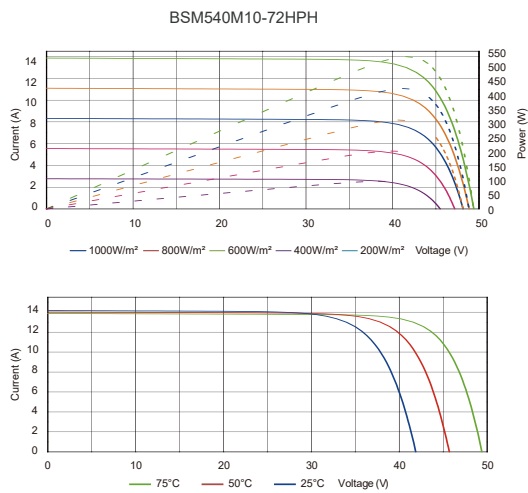
| Module Type                   | BSM540M10-72HPH |       | BSM545M10-72HPH |       | BSM550M10-72HPH |       | BSM550M10-72HPH |       | BSM560M10-72HPH |       |
|-------------------------------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
|                               | STC             | NMOT  | STC             | NMOT  | STC             | NMOT  | STC             | NMOT  | STC             | NMOT  |
| Maximum Power (pmax/W)        | 540             | 402   | 545             | 406   | 550             | 410   | 555             | 413   | 560             | 416   |
| Operating Voltage (Vmp/V)     | 41.96           | 38.29 | 42.06           | 38.35 | 42.16           | 38.43 | 42.24           | 38.52 | 42.33           | 38.59 |
| Operating Current (Imp/A)     | 12.87           | 10.50 | 12.96           | 10.58 | 13.05           | 10.66 | 13.14           | 10.73 | 13.23           | 10.80 |
| Open-Circuit Voltage (Voc/V)  | 49.60           | 46.12 | 49.70           | 46.21 | 49.80           | 46.31 | 49.90           | 46.40 | 50.00           | 46.49 |
| Short-Circuit Current (Isc/A) | 13.74           | 11.10 | 13.84           | 11.18 | 13.94           | 11.27 | 14.04           | 11.34 | 14.14           | 11.42 |
| Module Efficiency (nm/%)      | 20.90           |       | 21.10           |       | 21.30           |       | 21.49           |       | 21.68           |       |

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5

NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM 1.5, Wind Speed 1m/s

## I-V CURVE

## ENGINEERING DRAWINGS



## MECHANICAL SPECIFICATION

|                          |                                                             |
|--------------------------|-------------------------------------------------------------|
| Cell Type                | Monocrystalline                                             |
| Cell Dimensions          | 182*91mm                                                    |
| Cell Arrangement         | 144 (6*24)                                                  |
| Weight                   | 28.6kg                                                      |
| Module Dimensions        | 2278*1134*35mm                                              |
| Cable Length             | Portrait 300mm/Landscape 1200mm/Customized                  |
| Cable Cross Section Size | TUV: 4mm <sup>2</sup> (0.006inches <sup>2</sup> )/UL: 12AWG |
| Front Glass              | 3.2mm (0.13inches) AR Coating Tempered Glass                |
| No. of Bypass Diodes     | 3                                                           |
| Packing Configuration    | 31pcs/carton, 620pcs/40hq                                   |
| Frame                    | Anodized Aluminium Alloy                                    |
| Junction Box             | IP68                                                        |

## OPERATING CONDITIONS

|                        |                                            |
|------------------------|--------------------------------------------|
| Maximun System Voltage | 1000/1500V/DC(IEC)                         |
| Operating Temperature  | -40°C~ +85°C                               |
| Maximun Series Fuse    | 25A                                        |
| Static Loading         | Snow Loading: 5400Pa/ Wind Loading: 2400Pa |
| Conductivity at Ground | ≤0.1Ω                                      |
| Safety Class           | II                                         |
| Resistance             | ≥100MΩ                                     |
| Connector              | T01/LJQ-3-CSY/MC4/MC4-EVO2                 |

## TEMPERATURE COEFFICIENT

|                              |            |
|------------------------------|------------|
| Temperature Coefficient Pmax | -0.36%/°C  |
| Temperature Coefficient Voc  | -0.29%/°C  |
| Temperature Coefficient Isc  | +0.048%/°C |
| NMOT                         | 45±2°C     |

\*Data contained in these specifications is subject to change without notice. Bluesun Solar reserves the right to final interpretation of content.