



182
HEX5

BSM550M10-72HPH

530~550W

MONOFACIAL MODULE

BLUESUN SOLAR CO.,LTD

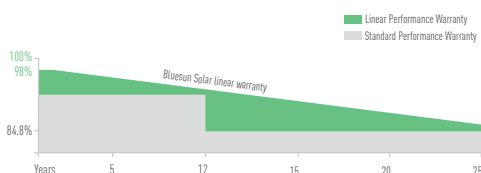
Bluesun, founded in 2004, as a superior photovoltaic manufacturer, is devoted to the R&D and the production of crystalline silicon solar cells and modules for 17 years. The company has its sales areas spread all over more than 100 countries and regions in the world, and the cumulative historical shipments exceeded 12 GW.

PERFORMANCE WARRANTY

12 Enhanced Product Warranty on Materials and Work man ship.

25 Linear Power Performance Warranty*

0.55 Annual Degradation Over 25 years no more than 0.55%



*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 / UL 61730 / INMETRO



THE IDEAL SOLUTION FOR:



Rooftop arrays on commercial industrial buildings



Ground-mounted solar power plants



High module conversion efficiency

MBB Half Cell Technology, Module efficiency up to 21.3%



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



PID Resistance

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



Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



Extended wind and snow load tests

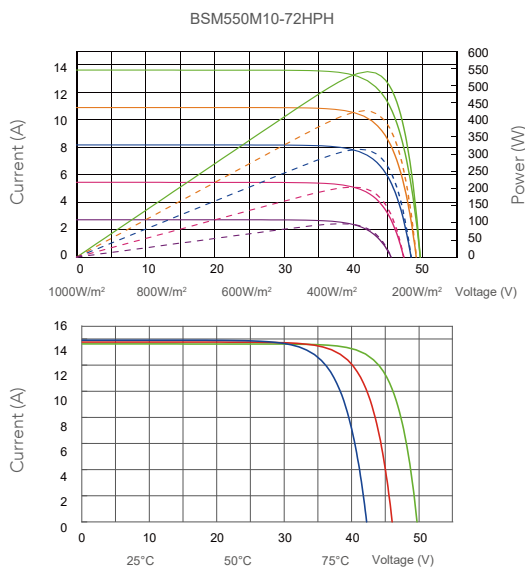
Module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)

SPECIFICATIONS

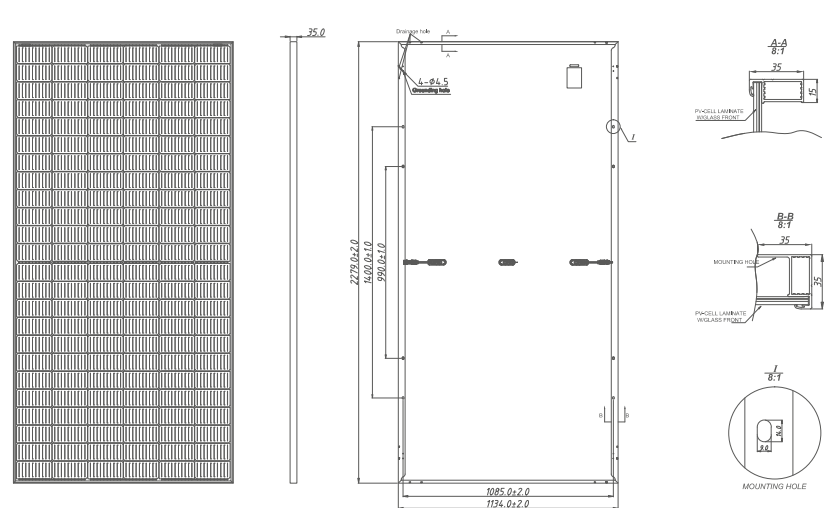
| Module Type | BSM530M10-72HPH | | BSM535M10-72HPH | | BSM540M10-72HPH | | BSM545M10-72HPH | | BSM550M10-72HPH | |
|--|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|-----------------|-------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (P _{max} /W) | 530 | 395 | 535 | 398 | 540 | 402 | 545 | 406 | 550 | 410 |
| Operating Voltage (V _{mpp} /V) | 41.32 | 38.6 | 41.48 | 38.7 | 41.64 | 38.8 | 41.80 | 39.0 | 41.96 | 39.1 |
| Operating Current (I _{mp} /A) | 12.83 | 10.24 | 12.90 | 10.30 | 12.97 | 10.36 | 13.04 | 10.41 | 13.11 | 10.47 |
| Open-Circuit Voltage (V _{oc} /V) | 49.32 | 46.4 | 49.46 | 46.50 | 49.60 | 46.7 | 49.76 | 46.8 | 49.92 | 47.0 |
| Short-Circuit Current (I _{sc} /A) | 13.72 | 11.06 | 13.79 | 11.12 | 13.86 | 11.17 | 13.93 | 11.23 | 14.00 | 11.28 |
| Module Efficiency η (%) | 20.5 | | 20.7 | | 20.9 | | 21.1 | | 21.3 | |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

I-V CURVE



ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

| | |
|--------------------------|---|
| Cell Type | Monocrystalline |
| Cell Dimensions | 182*182mm |
| Cell Arrangement | 144 (6*24) |
| Weight | 32.2kg |
| Module Dimensions | 2285*1134*35mm |
| Cable Length | Portrait 300mm/Landscape 1200mm/Customized |
| Cable Cross Section Size | TUV: 4mm ² (0.006inches ²)/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 | 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 P _{max} | -0.35%/°C |
| Temperature Coefficient V _{oc} | -0.26%/°C |
| Temperature Coefficient I _{sc} | +0.048%/°C |
| NMOT | 43±2°C |

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