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BIFACIAL

## 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.

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 / TUV

## $c \in \in$

THE IDEAL SOLUTION FOR:High module conversion efficiency
MBB Half Cell Technology, Module efficiency up to 23.0\%

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

## JIl Extended wind and snow load tests

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

SPECIFICATIONS

| Module Type | BSM580 | 72 HNH | BSM585 | -72HNH | BSM590 | -72HNH | BSM595 | $-72 \mathrm{HNH}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (Pmax/W) | 580 | 436.2 | 585 | 440 | 590 | 444 | 595 | 448 |
| Operating Voltage (Vmp/V) | 43.28 | 40.05 | 43.48 | 40.10 | 43.68 | 40.15 | 43.88 | 40.2 |
| Operating Current (Imp/A) | 13.41 | 10.86 | 13.47 | 10.94 | 13.53 | 11.02 | 13.59 | 11.10 |
| Open-Circuit Voltage (Voc/V) | 51.64 | 49.05 | 51.84 | 49.24 | 52.04 | 49.43 | 52.24 | 49.62 |
| Short-Circuit Current (Isc/A) | 14.29 | 11.60 | 14.33 | 11.64 | 14.37 | 11.68 | 14.41 | 11.72 |
| Module Efficiency $\quad \mathrm{mm}(\%)$ | 22.5 |  | 22.7 |  | 22.8 |  | 23.0 |  |

STC: Irradiance $1000 \mathrm{~W} / \mathrm{m}^{2}$, Cell Temperature $25^{\circ} \mathrm{C}$, Air Mass AM1.5 NMOT: Irradiance at $800 \mathrm{~W} / \mathrm{m}^{2}$, Ambient Temperatue $20^{\circ} \mathrm{C}$, Air Mass AM1.5, Wind Speed $1 \mathrm{~m} / \mathrm{s}$

## I-V CURVE


Voltage (V)

Voltage (V)
engineering drawings


OPERATING CONDITIONS

| Maximum System Voltage | 1500 V DC |
| :--- | ---: |
| Operating Temperature | $-40^{\circ} \mathrm{C} \sim+85^{\circ} \mathrm{C}$ |
| Maximum Series Fuse | 30 A |
| Static Loading | Snow Loading: 5400Pa/ Wind Loading: 2400Pa |
| Conductivity at Ground | $\leq 0.1 \Omega$ |
| Safety Class | ॥ |
| Resistance | $\geq 100 \mathrm{M} \Omega$ |
| Connector | T01/LJQ-3-CSY/MC4/MC4-EVO2 |

## temperature coefficient

| Temperature Coefficient Pmax | $-0.30 \% /{ }^{\circ} \mathrm{C}$ |
| :--- | ---: |
| Temperature Coefficient Voc | $-0.25 \% /{ }^{\circ} \mathrm{C}$ |
| Temperature Coefficient Isc | $+0.046 \% /{ }^{\circ} \mathrm{C}$ |
| NMOT | $45 \pm 2^{\circ} \mathrm{C}$ |

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

