

# HEX<sub>5</sub> BSM415M10-54HPH

**182** Black Mono-facial Perc  
Efficiency up to 21.23%

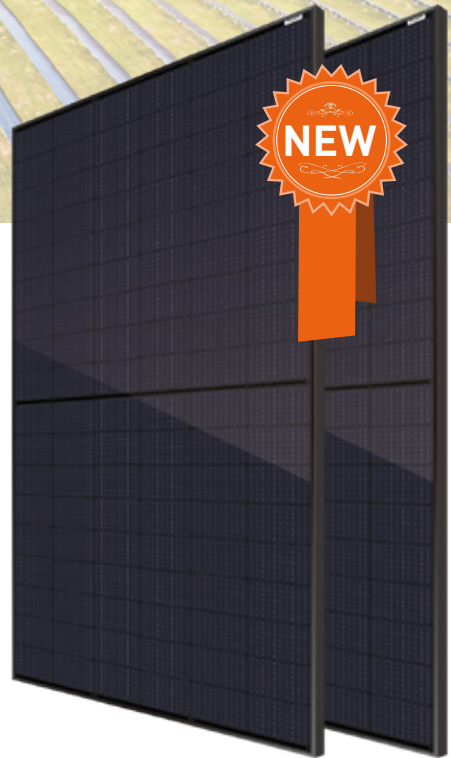
## Made In Vietnam

- 🏠 Long Beach, CA Stock
- ⚡ All Black, High Aesthetic
- 🏆 2M<sup>2</sup> Panel, Best Home Roof Fit

.Dimensions:1724\*1134\*35mm  
.Weight:22.0kg  
.Max. System Voltage: 1000V/1500 V (IEC/UL)

### GREAT PERFORMANCE AND RELIABILITY

- ★ The multi-busbar half-cut technology
- ★ Certified in TUV salt spray, ammonia corrosion
- ★ 2400Pa wind load and 5400Pa snow load testing
- ★ Effectively reducing BOS costs to achieve lower LCOE
- ★ First-year degradation is less than 2.0%
- ★ Low hot-spot & micro crack risk



### PERFORMANCE WARRANTY

- 12** Years Enhanced Product Warranty on Materials and Workmanship
- 25** Years Linear Power Performance Warranty According to the applicable Bluesun Solar Limited Warranty Statement.

### MANAGEMENT SYSTEM CERTIFICATES

- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

### PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730



### BLUESUN SOLAR CO.,LTD

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US Warehouse Location: Long Beach, CA

\*Release BSM415M10-54HPH(400-420W)\_V.22\_07

## Electrical Data (STC)

Maximum Power (Pmax/W)	400	405	410	415	420
Operating Voltage (Vmp/V)	36.96	37.11	37.26	37.41	37.56
Short Circuit Current (Isc/A)	13.60	13.70	13.79	13.89	13.98
Voltage at Maximum Power (Vmp/V)	31.00	31.15	31.30	31.45	31.60
Current at Maximum Power (Imp/A)	12.91	13.01	13.10	13.20	13.30
Module Efficiency ηm(%)	20.46	20.72	20.97	21.23	21.48

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, AM1.5 Operating Temperature:-40°C~+85°C

## Electrical Data (NMOT)

Maximum Power (Pmax/W)	300	304	308	312	316
Operating Voltage (Vmp/V)	33.97	34.12	34.27	34.42	34.57
Short Circuit Current (Isc/A)	11.10	11.18	11.27	11.35	11.43
Voltage at Maximum Power (Vmp/V)	28.19	28.34	28.49	28.64	28.79
Current at Maximum Power (Imp/A)	10.65	10.73	10.82	10.90	10.98

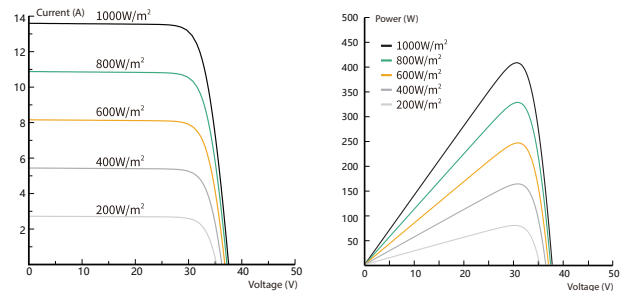
NMOT (Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20 °C, AM1.5, Wind Speed 1m/s.

## Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	108(6×18)
Module Dimensions	1724×1134×35mm
Weight	22.0kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film(Black)
Frame Material	Anodized aluminum alloy(Black)
Junction Box	Protection class IP68
Cable	4.0 mm <sup>2</sup> positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 compatible connector

## I-V CURVE

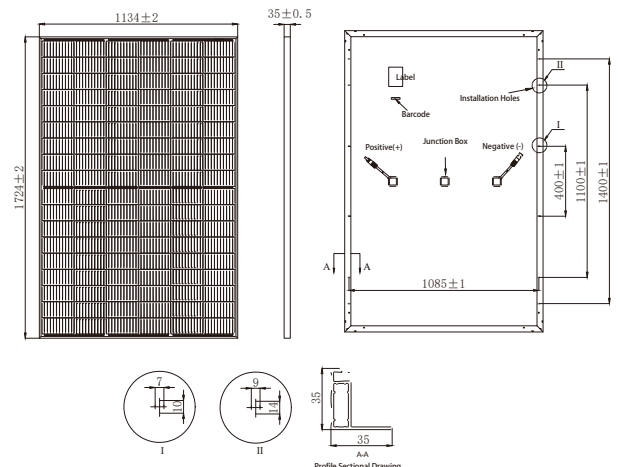
Current-Voltage Curve(420W)



## TECHNICAL DRAWINGS

Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Module Operating Temperature)	41±3 °C

## Module Dimensions (mm)



## Packaging

Transportation methods	40HQ container
Number of modules per cabinet	806pcs
Number of modules per pallet	31pcs+31pcs

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