



HEX5

BSM415M10-54HPH

182 Bifacial Module With Transparent Backsheet
10BB Half-cut Mono Perc



Made In Thailand

- Long Beach Stock**
- US Local Service**
- Same Day Shipping**

- Dimensions: 1722*1134*30mm
- Weight: 21.5kg
- Max. System Voltage: 1000V/1500 V (IEC/UL)

PERFORMANCE WARRANTY

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

GREAT PERFORMANCE AND RELIABILITY

- ★ **10BB Half-cut Cell Technology**
New circuit design, lower internal current, lower Rs loss
Ga doped wafer, attenuation < 2% (1st year) / ≤ 0.55% (Linear)
- ★ **Industry Leading High Yield**
Bifacial PERC cell technology,
5%-25% more yield depends on different conditions
- ★ **Excellent Anti-PID Performance**
2 times of industry standard Anti-PID test by TUV SUD
- ★ **Lower LCOE**
2% more power generation, lower LCOE
- ★ **IP68 Junction Box**
High waterproof level

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

Add: 1499 Zhenxing Road, Shushan District, 230031 Hefei, China
 Tel: +86 (158) 5821 3997 Fax: +86 (551) 6565 2651
 E-mail: info@bluesunpv.com Http://www.bluesunpv.com

US Warehouse Location: Long Beach, Chicago, New Jersey Etc

ELECTRICAL CHARACTERISTICS

| Testing Condition | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 400 | 298 | 405 | 302 | 410 | 306 | 415 | 309 | 420 | 313 |
| Operating Voltage (Vmpp/V) | 31.05 | 29.0 | 31.24 | 29.2 | 31.43 | 29.3 | 31.63 | 29.5 | 31.82 | 29.7 |
| Operating Current (Imp/A) | 12.89 | 10.30 | 12.97 | 10.36 | 13.05 | 10.42 | 13.13 | 10.49 | 13.21 | 10.55 |
| Open-Circuit Voltage (Voc/V) | 37.00 | 34.8 | 37.25 | 35.1 | 37.50 | 35.3 | 37.75 | 35.6 | 38.00 | 35.8 |
| Short-Circuit Current (Isc/A) | 13.78 | 11.11 | 13.86 | 11.17 | 13.94 | 11.24 | 14.02 | 11.31 | 14.10 | 11.38 |
| Module Efficiency (%) | 20.50 | | 20.70 | | 21.00 | | 21.25 | | 21.51 | |

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25°C. Power output tolerance: 0~+5W, Test uncertainty for Pmax : ±3%
 NMOT: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20°C, Wind speed 1m/s

MECHANICAL CHARACTERISTICS

| | |
|-------------------|---|
| Solar Cell | Monocrystalline 182*182mm |
| No. of Cells | 108 (6*18) |
| Module Dimensions | 1722*1134*30mm (67.80*44.65*1.18inches) |
| Weight | 21.5kg (47.4lbs.) |
| Front Glass | 3.2mm AR Coating Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68, 3 Bypass Diodes |
| Output Cables | 4mm ² (IEC), 12AWG(UL) 300mm in Length or Customized Length |
| Connectors | T01/LJQ-3-CSY/MC4/MC4-EVO2 |

APPLICATION CONDITIONS

| | |
|---------------------------|-------------------------------------|
| Maximum System Voltage | 1000V/1500VDC/(IEC) |
| Operating Temperature | -40°C~+85°C |
| Maximum Series Fuse | 25A |
| Safety Protection Class | Class II |
| Mechanical Load | Front side 5400Pa, Back side 4000Pa |
| Refer. Bifaciality Factor | 70%(+5%~-10%) |

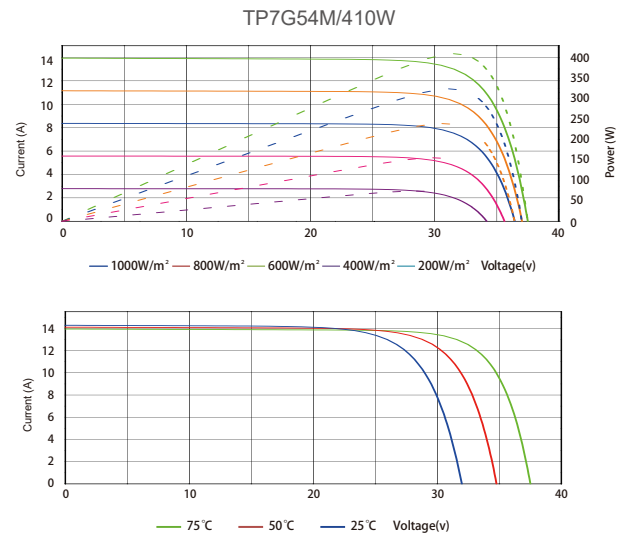
TEMPERATURE CHARACTERISTICS

| | |
|--|------------|
| Temperature Coefficient of Pmax | -0.35%/°C |
| Temperature Coefficient of Voc | -0.26%/°C |
| Temperature Coefficient of Isc | +0.048%/°C |
| Nominal Module Operating Temperature(NMOT) | 43±2°C |

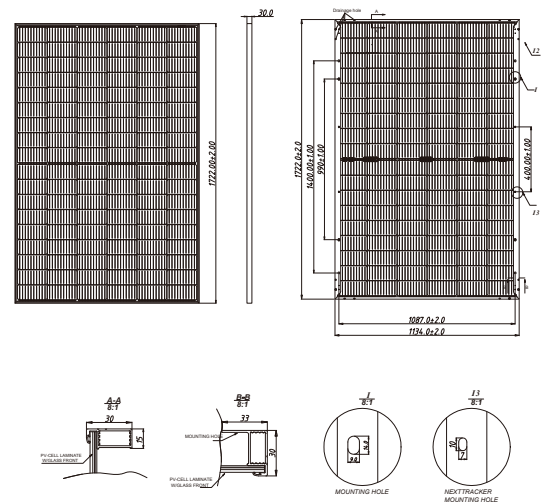
PACKING CONFIGURATION

| | | |
|-----------------------------|-----|---------|
| Pieces Per Pallet | 36 | 36(USA) |
| Pieces Per Container(40'HQ) | 936 | 828 |

I-V CURVE



TECHNICAL DRAWINGS



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