



**BLUESUN SOLAR CO.,LTD**



# Mono Shingled Solar Panels

110W/170W

Your  
**Best**  
PV  
Supplier



## Why Choose Us

**No.1** supplier of all-black shingle customized series

**30** Years -year power output guarantee

**300+** MW Share 10% of the market

## Diverse Application



Easy Installation



High Aesthetic Value



Wind, High Temperature Resistant



Great Power Performance Under Weak Light



Operating cost of a solar ship is only 17% compared with that of an ordinary diesel-powered ship



Innovation  
Make Panels  
Thinner And More Efficient



### Monocrystalline solar module

| Model | Dimensions    | Weight  |
|-------|---------------|---------|
| 110W  | 1480*676*30mm | 11.18kg |
| 170W  | 1580*808*35mm | 15.6kg  |

### Shingled all black solar module

| Model | Dimensions    | Weight |
|-------|---------------|--------|
| 110W  | 1160*450*30mm | 5.6kg  |
| 170W  | 1230*670*30mm | 8.6kg  |



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▼ **FULL BLACK**

*Mono Shingled Solar Panels*



**Mechanical Data**

Standard Test Conditions AM=1.5, E=1000W/m<sup>2</sup>, TC=25°C

|                              |  |
|------------------------------|--|
| Nominal Power                | 110W   |
| Cell Type                    | Monocrystalline                                  |
| Module                       | 21.1%  |
| Maximum Power Current (Impp) | 4.97A  |
| Maximum Power Voltage (Vmpp) | 22.12V   |
| Open-circuit Voltage (Voc)   | 26.29V   |
| Short-circuit Current (Isc)  | 5.27A  |
| Maximum System Voltage       | 500V   |
| Output Tolerance             | +3%  |
| Cable                        | 700mm / 2.5mm <sup>2</sup>                       |
| Connector Type               | MC4 / MC4 Compatible                             |
| Module Structure             | Aluminum Frame / Glass / EVA / Backsheet (White) |
| Junction box rating          | ≥ IP67   |
| Number of Diodes             | One  |
| Working Temperature          | -40°C ~ +80°C                                    |

**Packaging**

|                         |                  |
|-------------------------|------------------|
| Module Dimensions       | 1160*450*30mm    |
| Module Weight           | 5.6kg            |
| Package                 | Single Package   |
| Pieces per Pallet       | 56               |
| Gross Weight per Pallet | 407kg            |
| Pallet Dimensions       | 1200*1000*1070mm |

# BSM110PM5-S

## Warranty

5 years Manufacturer Warranty  
Warranty on Electrical Performance: 15 years 90%  
+ 30 years 80% of power output

## Manufacturing

Original cell sorting system ensures the best electric cell match  
EL-Testing before packing.  
Comprehensive module power testing.

## Performance

Higher module efficiency and compact size.  
Weakened hot-spot effect, lower module failure rate and increased stability by shingle-tech.  
Special connection method lowers the internal resistance and ensures better performance than traditional connection with busbar.  
IP67 rated junction box, reliable cables and standard MC4 connectors improve the stability



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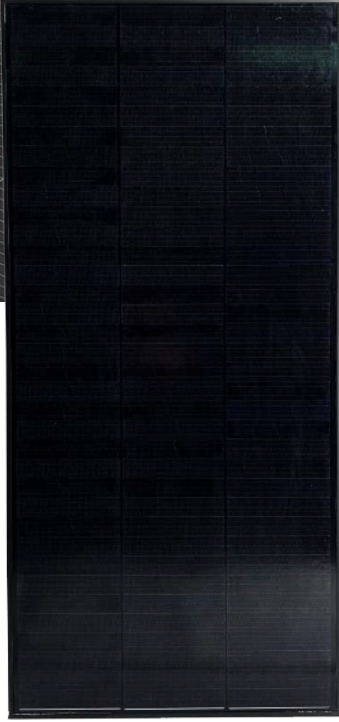
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# BSM170PM5-S

## Warranty

- ◆ 5 years Manufacturer Warranty
- ◆ Warranty on Electrical Performance: 15 years 90% + 30 years 80% of power output

## Manufacturing

- ◆ Original cell sorting system ensures the best electric cell match
- ◆ EL-Testing before packing.
- ◆ Comprehensive module power testing.

## Performance

- ◆ Higher module efficiency and compact size. Weakened hot-spot effect, lower module failure rate and increased stability by shingle-tech.
- ◆ Special connection method lowers the internal resistance and ensures better performance than traditional connection with busbar.
- ◆ IP67 rated junction box, reliable cables and standard MC4 connectors improve the stability

### Mechanical Data

Standard Test Conditions AM=1.5, E=1000W/m<sup>2</sup>, TC=25°C

|                              |  |
|------------------------------|--|
| Nominal Power                | 170W   |
| Cell Type                    | Monocrystalline                                  |
| Module                       | 20.6%  |
| Maximum Power Current (Impp) | 7.14A  |
| Maximum Power Voltage (Vmpp) | 23.82V   |
| Open-circuit Voltage (Voc)   | 28.31V   |
| Short-circuit Current (Isc)  | 7.57A  |
| Maximum System Voltage       | 500V   |
| Output Tolerance             | +3%  |
| Cable                        | 900mm / 2.5mm <sup>2</sup>                       |
| Connector Type               | MC4 / MC4 Compatible                             |
| Module Structure             | Aluminum Frame / Glass / EVA / Backsheet (White) |
| Junction box rating          | ≥ IP67   |
| Number of Diodes             | One  |
| Working Temperature          | -40°C~+80°C                                      |

### Packaging

|                         |                  |
|-------------------------|------------------|
| Module Dimensions       | 1230*670*30mm    |
| Module Weight           | 8.6kg            |
| Package                 | Single Package   |
| Pieces per Pallet       | 56               |
| Gross Weight per Pallet | 575kg            |
| Pallet Dimensions       | 1250*1000*1510mm |



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