



BLUESUN SOLAR CO.,LTD



Mono Shingled Solar Panels

70W/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	1190*450*30mm	6.3kg
170W	1230*670*30mm	9.0kg



▼ **FULL BLACK**

Mono Shingled Solar Panels



BSM70PM5-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/m², TC=25°C

Nominal Power	70W
Cell Type	Monocrystalline
Cell Efficiency	21.4%
Maximum Power Current (Impp)	3.74A
Maximum Power Voltage (Vmpp)	18.70V
Open-circuit Voltage (Voc)	22.10V
Short-circuit Current (Isc)	4.25A
Maximum System Voltage	500V
Output Tolerance	+3%
Cable	900mm / 1.5mm ²
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	1050*350*30mm
Module Weight	5.42kg
Package	Single Package
Pieces per Pallet	30
Gross Weight per Pallet	200kg
Pallet Dimensions	1200*1100*510mm



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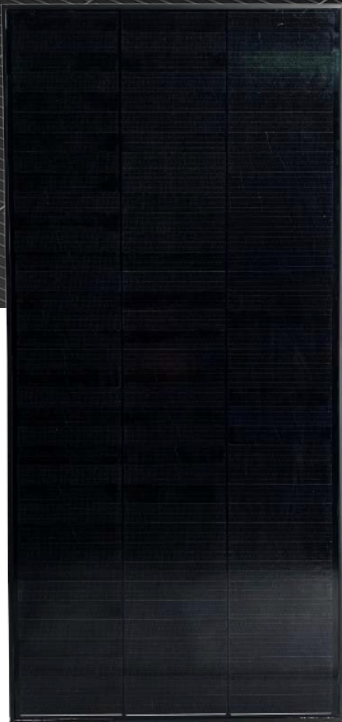
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Mono Shingled Solar Panels



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

Mechanical Data

Standard Test Conditions AM=1.5, E=1000W/m², TC=25°C

Nominal Power	110W
Cell Type	Monocrystalline
Cell Efficiency	21.4%
Maximum Power Current (Impp)	4.91A
Maximum Power Voltage (Vmpp)	22.40V
Open-circuit Voltage (Voc)	26.40V
Short-circuit Current (Isc)	5.33A
Maximum System Voltage	500V
Output Tolerance	+3%
Cable	900mm / 2.5mm ²
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	1190*450*30mm
Module Weight	6.3kg
Package	Single Package
Pieces per Pallet	30
Gross Weight per Pallet	225kg
Pallet Dimensions	1200*1100*610mm



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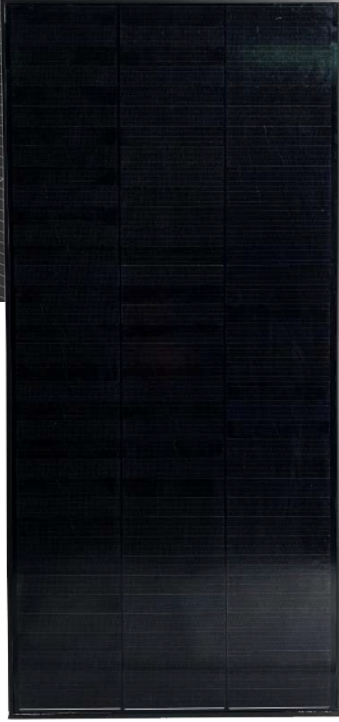
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Mono Shingled Solar Panels



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

- ◆ Higherer module efficiency and compactsize. 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/m2, TC=25°C

Nominal Power	170W
Cell Type	Monocrystalline
Cell Efficiency	21.4%
Maximum Power Current (Impp)	7.54A
Maximum Power Voltage (Vmpp)	22.55V
Open-circuit Voltage (Voc)	26.65V
Short-circuit Current (Isc)	8.05A
Maximum System Voltage	500V
Output Tolerance	+3%
Cable	900mm / 2.5mm2
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	9.0kg
Package	Single Package
Pieces per Pallet	28
Gross Weight per Pallet	300kg
Pallet Dimensions	1240*1100*830mm



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