



BSM550M10-72HPH

525-550W



**YOUR
BEST
PV
SUPPLIER**

550W

Maximum Power Output

21.3%

Maximum Module Efficiency

0~+5W

Power Output Guarantee



Higher output power



More reliable, more stable power generation



Less shading effect

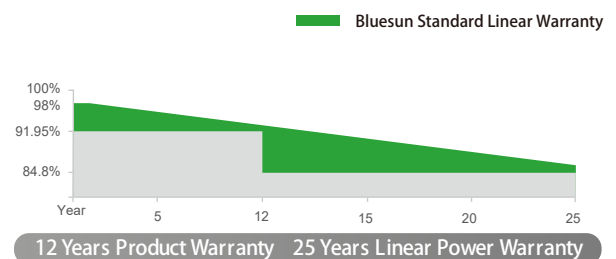


Lower temperature coefficient

Key features

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, ISO14001: 2015 and OHSAS: 18001 2007
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716, DIN EN 60068-2- 68)
- Long term reliability tests
- 2×100% EL inspection ensuring defect-free modules

Linear Performance Warranty



* Please refer to Bluesun standard warranty for details

Certificate



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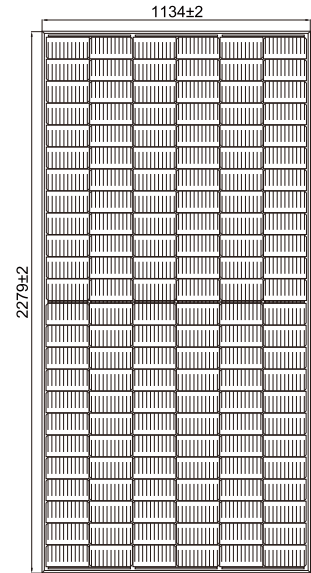




ELECTRICAL PARAMETERS AT STC

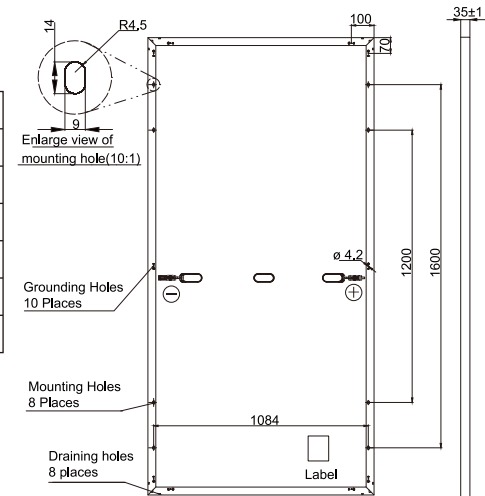
Model	BSM525M10 -72HPH	BSM530M10 -72HPH	BSM535M10 -72HPH	BSM540M10 -72HPH	BSM545M10 -72HPH	BSM550M -72HPH
Max Power(Pmax) [W]	525	530	535	540	545	550
Open Circuit Voltage (Voc) [V]	49.15	49.30	49.45	49.60	49.75	49.90
Max Power Voltage (Vmpp) [V]	41.15	41.31	41.47	41.64	41.80	41.96
Short Circuit Current (Isc) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Max Power Current(Imp) [A]	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency [%]	20.3	20.5	20.7	20.9	21.1	21.3
Power Tolerance	0-5W					
Max System Voltage	DC 1500V (IEC)					
Max Series Fuse Rating	25A					
Operating Temperature	-40 C to + 85 C					
STC	Irradiance 1000W/m ² , cell temperature 25 C, AM1.5G					

*For mechanical loading performance: front side maximum static loading 5400Pa, rear side maximum static loading 2400Pa; hailstone test: 25mm hailstone at the speed of 23m/s



NMOT

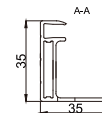
Model Number	BSM525M10 -72HPH	BSM530M10 -72HPH	BSM535M10 -72HPH	BSM540M10 -72HPH	BSM545M10 -72HPH	BSM550M10 -72HPH
Max Power(Pmax) [W]	397	401	405	408	412	416
Open Circuit Voltage (Voc) [V]	46.05	46.18	46.31	46.43	46.55	46.68
Max Power Voltage (Vmpp) [V]	38.36	38.57	38.78	38.99	39.20	39.43
Short Circuit Current (Isc) [A]	10.97	11.01	11.05	11.09	11.13	11.17
Max Power Current(Imp) [A]	10.35	10.39	10.43	10.47	10.51	10.55
NMOT	45±2°C					



Mechanical Characteristics

Solar Cells	Mono Perc 182mm×182mm
Dimensions	2279±2mm×1134±2mm×35±1mm
Weight	28.6kg±3%
Front Load	5400Pa
Connector Type	PV Connector
Junction Box	IP68, 3 bypass diode
Cables	4mm ² (IEC)
Glass	3.2mm High Transmission Tempered Glass
Frame	Anodized Aluminium Alloy
Packing	31pcs/pallet, 250pcs/20GP, 620pcs/40HQ

Units: mm

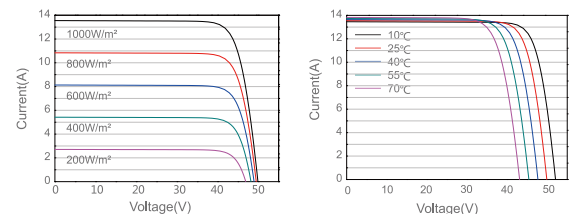


Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.350%/C
Temperature Coefficient of Voc	β (Voc)	-0.275%/C
Temperature Coefficient of Isc	α (Isc)	0.045%/C

I-V Curves

Current-Voltage Curve (BSM535M10-72HPH)



Hi-MO **5m**

LR5-72HPH 525~550M

- Based on M10-182mm wafer, best choice for ultra-large power plants
- Advanced module technology delivers superior module efficiency
 - M10 Gallium-doped Wafer
 - Smart Soldering
 - 9-busbar Half-cut Cell
- Excellent outdoor power generation performance
- High module quality ensures long-term reliability

12

12-year Warranty for
Materials and Processing

25

25-year Warranty for Extra
Linear Power Output

Complete System and Product Certifications

IEC 61215, IEC 61730, UL 61730

ISO 9001:2008: ISO Quality Management System

ISO 14001: 2004: ISO Environment Management System

TS62941: Guideline for module design qualification and type approval

OHSAS 18001: 2007 Occupational Health and Safety

LONGI



21.5%
MAX MODULE
EFFICIENCY

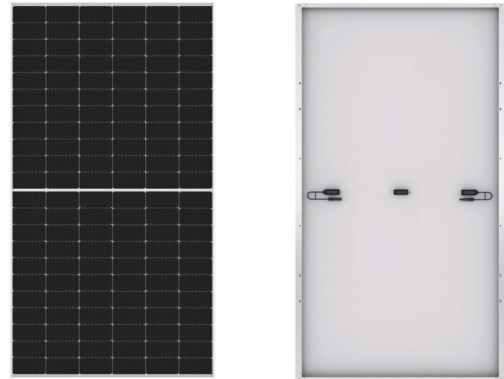
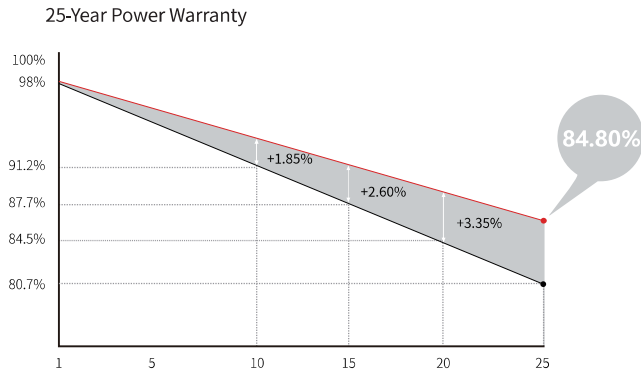
0~+5W
POWER
TOLERANCE

<2%
FIRST YEAR
POWER DEGRADATION

0.55%
YEAR 2-25
POWER DEGRADATION

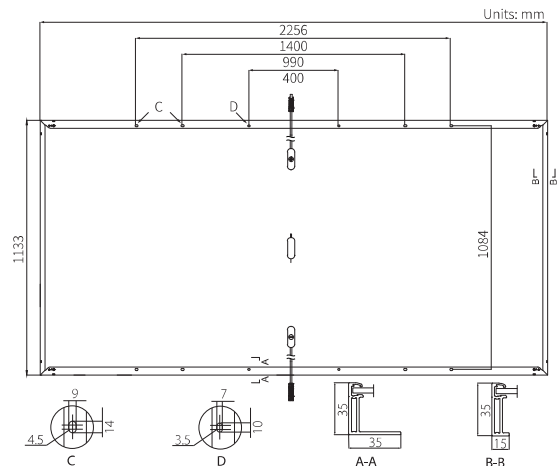
HALF-CELL
Lower operating temperature

Additional Value



Mechanical Parameters

Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , positive 400 / negative 200mm length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	27.2kg
Dimension	2256×1133×35mm
Packaging	31pcs per pallet / 155pcs per 20' GP / 620pcs per 40' HC



Electrical Characteristics

STC : AM1.5 1000W/m² 25°C

Test uncertainty for Pmax: ±3%

	525	530	535	540	545	550
Power Class	525	530	535	540	545	550
Maximum Power (Pmax/W)	525	530	535	540	545	550
Open Circuit Voltage (Voc/V)	49.05	49.20	49.35	49.50	49.65	49.80
Short Circuit Current (Isc/A)	13.65	13.71	13.78	13.85	13.92	13.98
Voltage at Maximum Power (Vmp/V)	41.20	41.35	41.50	41.65	41.80	41.95
Current at Maximum Power (Imp/A)	12.75	12.82	12.90	12.97	13.04	13.12
Module Efficiency(%)	20.5	20.7	20.9	21.1	21.3	21.5

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ +5 W
Voc and Isc Tolerance	±3%
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Fire Rating	UL type 1 or 2

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Voc	-0.270%/°C
Temperature Coefficient of Pmax	-0.350%/°C