








Features

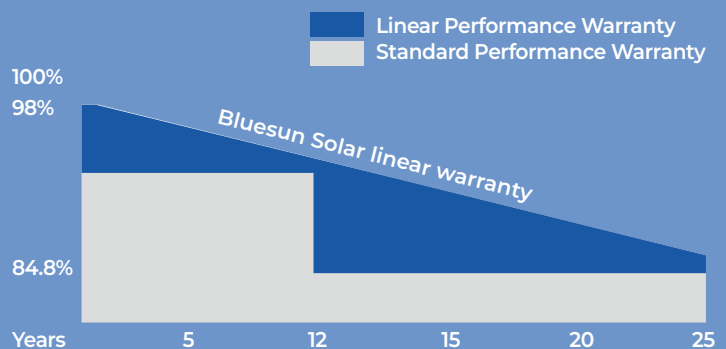
-  **High module conversion efficiency**
MBB Half Cell Technology, Module efficiency up to 21.68%.
-  **Withstands Harsh Environments**
Deep black, uniform layout for improved aesthetics.
-  **PID Resistance**
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.
-  **Low System Cost**
High module efficiency, reducing system cost.
-  **Low Shading Loss**
Full parallel arrangement brings high effective power generation hours.
-  **The ideal solution for:**
Rooftop arrays on commercial industrial buildings.
-  Ground-mounted solar power plants.

PERFORMANCE WARRANTY



Annual Degradation Over 25 years no more than 0.55%

Founded in 2004, Bluesun is a leading photovoltaic manufacturer dedicated to the research, development, and production of crystalline silicon solar cells and modules for 17 years. The company has sales in over 100 countries and regions worldwide, with cumulative historical shipments exceeding 12 GW.



*According to the applicable Bluesun Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES

- ISO 9001:2015 / Quality management system
- ISO 14001:2015 / Standards for environmental
- ISO 45001: 2018 / International standards for occupational health & safety

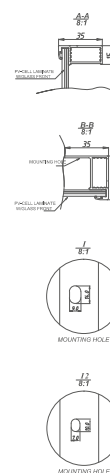
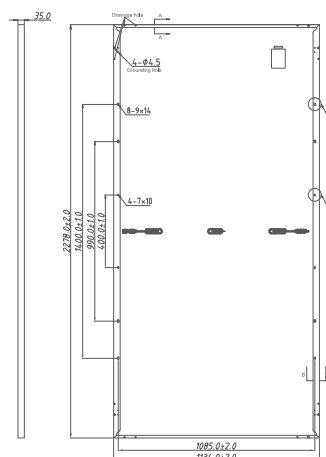
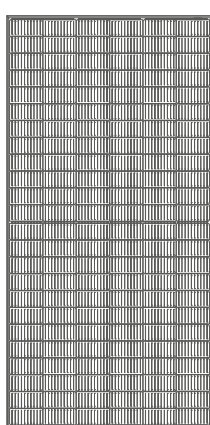
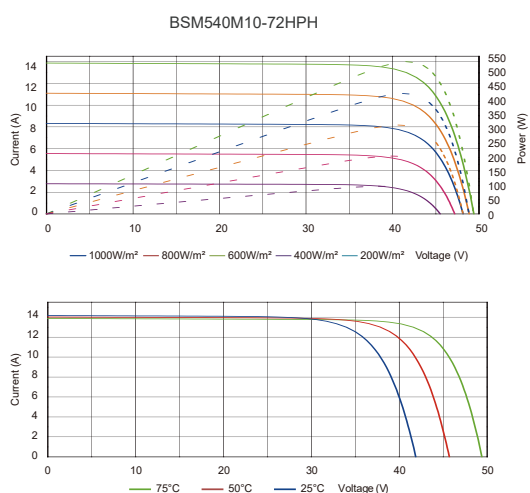
PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / CE



Module Type	BSM540M10-72HPH		BSM545M10-72HPH		BSM550M10-72HPH		BSM550M10-72HPH		BSM560M10-72HPH	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (pmax/W)	540	402	545	406	550	410	555	413	560	416
Operating Voltage (Vmp/V)	41.96	38.29	42.06	38.35	42.16	38.43	42.24	38.52	42.33	38.59
Operating Current (Imp/A)	12.87	10.50	12.96	10.58	13.05	10.66	13.14	10.73	13.23	10.80
Open-Circuit Voltage (Voc/V)	49.60	46.12	49.70	46.21	49.80	46.31	49.90	46.40	50.00	46.49
Short-Circuit Current (Isc/A)	13.74	11.10	13.84	11.18	13.94	11.27	14.04	11.34	14.14	11.42
Module Efficiency (nm%)	20.90		21.10		21.30		21.49		21.68	
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5					NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM 1.5, Wind Speed 1m/s					

ENGINEERING DRAWINGS



Cell Type	Monocrystalline
Cell Dimensions	182*91mm
Cell Arrangement	144 (6*24)
Weight	28.6kg
Module Dimensions	2278*1134*35mm
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm² (0.006inches²)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3
Packing Configuration	31pcs/carton, 620pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

Maximun System Voltage	1000/1500V/DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximun Series Fuse	25A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.29%/°C
Temperature Coefficient Isc	+0.048%/°C
NMOT	45±2°C

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