

BSM6000-B2

Commercial Small Power Inverter

6 KW



ANTI-FLOW
Anti-Feed-in Function



PV OVERSIZE
Max. 1.5 time
PV Oversize Capacity



PROTECTION
Multiple intelligent
Protections



SMART
Smart IV Curve Scanning



Wi-Fi
Wi-Fi Standard
Ethernet/GPRS Optional



CONFIGURATION
Quick & Easy
Config. via Wi-Fi



MODBUS
MODBUS
Communication Ready

The Bluesun On Grid Inverter Series Single-phase inverters are designed for residential PV system applications, rating from 6kW to 8kW. All models have unibody housings with aluminum structure which is anodized, increasing durability and effectively prevents corrosion. Equipped with external inductors, the unibody housings can ensure efficient heat dissipation, which significantly improves the reliability and extends the life of the inverters.

The inverter menu is activated by sensor touch buttons. Communication implements are via the Wi-Fi module (can be changed to Ethernet / GPRS). Check the system status anytime and anywhere via online portal or APP.



MPPT efficiency
> 99.9%



Two MPPT design



Active and reactive
power compensation,
adjust power factor



No fans design



Quick and easy
installation



High-quality power
output and low THDI

PV Input Data	BSM6000-B2
Max. DC Power (W)	8400
Max. DC Voltage (V)	600
MPPT Voltage Range (V)	70-550
MPPT Full Power Voltage Range (V)	220-550
Rated Input Voltage (V)	360
Start-up Voltage (V)	70
Max. Input Current (A)	14 x 2
Max. Short Current (A)	18 x 2
No. of MPP Tracker / No. of PV String	2/2
Input Connector Type	MC4

AC Output Data	
Max. Output Power (W)	6600
Nominal Output Power (W)	6000
Max. Output Current (A)	28.7
Nominal Output Voltage (V)	L/N/PE, 220Vac, 230Vac, 240Vac
Grid Voltage Range	180Vac-276Vac (According to local standard)
Nominal Output Frequency (Hz)	50/60
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)
Output Current THD	<3%

Efficiency	
Max. Efficiency	98.20%
Euro Efficiency	97.92%

Protection	
PV Reverse Polarity Protection	YES
PV Insulation Resistance Detection	YES
AC Short Circuit Protection	YES
AC Over Current Protection	YES
AC Over Voltage Protection	YES
Anti-Islanding Protection	YES
Residual Current Detection	YES
Over Temperature Protection	YES
Integrated DC switch	YES
Surge Protection	Integrated (Type III)
Smart IV Curve Scanning	YES
Quick Arc Fault Circuit Interruption	Optional

General Data	
Dimensions (H x W x D, mm)	370 x 350 x 142
Weight (kg)	11
Protection Degree	IP65
Enclosure Material	Aluminum
Ambient Temperature Range (C)	-25 to 60
Humidity Range	0-100%
Topology	Transformerless
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)
Cooling Concept	Convection
Noise Emission (db)	<28
Night Power Consumption (W)	<1
Max. Operation Altitude (m)	4000

Certifications and Standards	
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12
Safety Standard	IEC 60068, UL1741, EN62109
Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727

BSM8000-B2

Commercial Small Power Inverter

8 KW



ANTI-FLOW
Anti-Feed-in Function



PV OVERSIZE
Max. 1.5 time
PV Oversize Capacity



PROTECTION
Multiple intelligent
Protections



SMART
Smart IV Curve Scanning



Wi-Fi
Wi-Fi Standard
Ethernet/GPRS Optional



CONFIGURATION
Quick & Easy
Config. via Wi-Fi



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Communication Ready

The Bluesun On Grid Inverter Series Single-phase inverters are designed for residential PV system applications, rating from 6kW to 8kW. All models have unibody housings with aluminum structure which is anodized, increasing durability and effectively prevents corrosion. Equipped with external inductors, the unibody housings can ensure efficient heat dissipation, which significantly improves the reliability and extends the life of the inverters.

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MPPT efficiency
> 99.9%



Two MPPT design



Active and reactive
power compensation,
adjust power factor



No fans design



Quick and easy
installation



High-quality power
output and low THDI

PV Input Data	BSM8000-B2
Max. DC Power (W)	11200
Max. DC Voltage (V)	600
MPPT Voltage Range (V)	70-550
MPPT Full Power Voltage Range (V)	220-550
Rated Input Voltage (V)	360
Start-up Voltage (V)	70
Max. Input Current (A)	14 +26
Max. Short Current (A)	18 +35
No. of MPP Tracker / No. of PV String	2/3
Input Connector Type	MC4
AC Output Data	
Max. Output Power (W)	8800
Nominal Output Power (W)	8000
Max. Output Current (A)	38.3
Nominal Output Voltage (V)	L/N/PE, 220Vac, 230Vac, 240Vac
Grid Voltage Range	180Vac-276Vac (According to local standard)
Nominal Output Frequency (Hz)	50/60
Grid Frequency Range	45-55Hz/54-66Hz (According to local standard)
Output Power Factor	1 default (adjustable from 0.8 leading to 0.8 lagging)
Output Current THD	<3%
Efficiency	
Max. Efficiency	98.20%
Euro Efficiency	98.00%
Protection	
PV Reverse Polarity Protection	YES
PV Insulation Resistance Detection	YES
AC Short Circuit Protection	YES
AC Over Current Protection	YES
AC Over Voltage Protection	YES
Anti-Islanding Protection	YES
Residual Current Detection	YES
Over Temperature Protection	YES
Integrated DC switch	YES
Surge Protection	Integrated (Type III)
Smart IV Curve Scanning	YES
Quick Arc Fault Circuit Interruption	Optional
General Data	
Dimensions (H x W x D, mm)	510 x 370 x 167
Weight (kg)	17
Protection Degree	IP65
Enclosure Material	Aluminum
Ambient Temperature Range (C)	-25 to 60
Humidity Range	0-100%
Topology	Transformerless
Communication Interface	RS485 / WiFi / Wire Ethernet / GPRS (optional)
Cooling Concept	Convection
Noise Emission (db)	<40
Night Power Consumption (W)	<1
Max. Operation Altitude (m)	4000
Certifications and Standards	
EMC Standard	EN/IEC 61000-6-2, EN/IEC 61000-6-3, EN61000-3-2, EN61000-3-3, EN61000-3-11, EN61000-3-12
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Grid-connection	IEEE1547, CSA C22, EN50549, VDE4105, VDE0126, RD1699, ABNT NBR16149 & 16150, AS4777.2, NB/T32004, G98/G99, IEC61727