

Residential PV Inverter



High Efficiency

Max. DC voltage 550V.
Max efficiency 98.59%.
Double channels MPPT.
High precision & intelligent string detection.

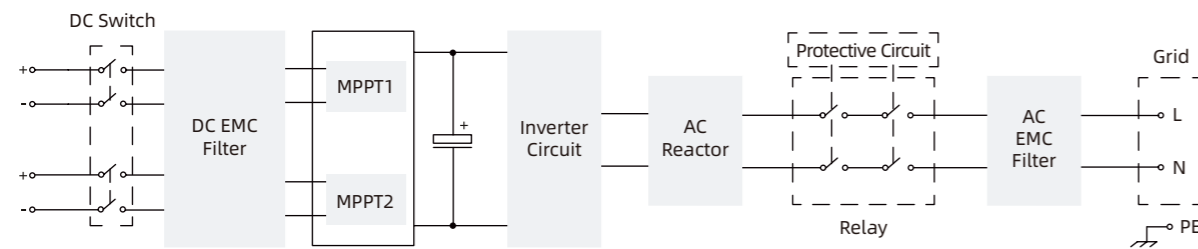


Reliable

Compact structure, easy for installation and maintenance.
IP65 waterproof.
Mobile phone APP and check the status information of inverter.

Topological Graph

5/6K



Technical Parameters

Model		BSM5000-B2	BSM6000-B2	BSM8000-B2
DC Input	Max. DC Voltage	550V		
	Startup voltage	140V		
	MPPT Voltage Range	90V ~ 500V		
	Max. Input Current of Each MPPT	12A/12A		24A/12A
	Number of DC Inputs	2		3
	MPPT Number	2		
AC Output	Rated Output Power	5kW	6kW	8kW
	Max. Active Power (cosθ=1)	5.5kW	6.6kW	8kW
	Rated Output Voltage	220V / 230V (Single Phase)		
	Operating Voltage Range	172.5V ~ 276V		
	Max. Output Current	25A	30A	36.4A
	Rated Grid Frequency	50Hz / 60Hz		
	Power Factor	0.8(Leading) ~ 0.8(Lagging)		
	THD	<3%		
	Max. Efficiency	98.47%	98.55%	98.59%
	European Efficiency	98.0%		
System Parameters	AC/DC SPD	Support		
	Insulation Impedance Detection	Support		
	Residual Leakage Current Detection	Support		
	PV String Fault Detection	Support		
	Output Overcurrent Protection	Support		
	Protection Level	IP65		
	Operating Temperature Range	-25°C ~ +60°C		
	Cooling System	Natural Cooling		
	Standby Power Consumption	<1W		
	Topology Structure	Transformerless		
	Operating Altitude	4000m (Derating above 3000m)		
	Display	LED Indicator + APP		
	Communication	RS485 / WiFi / GPRS		
Certification	IEC62109, IEC61000, IEC62116, IEC61727, EN50549, iNMETRO,			
Mechanical Parameters	Dimensions (W*H*D)	325*380*177mm		
	Weight	<14kg		



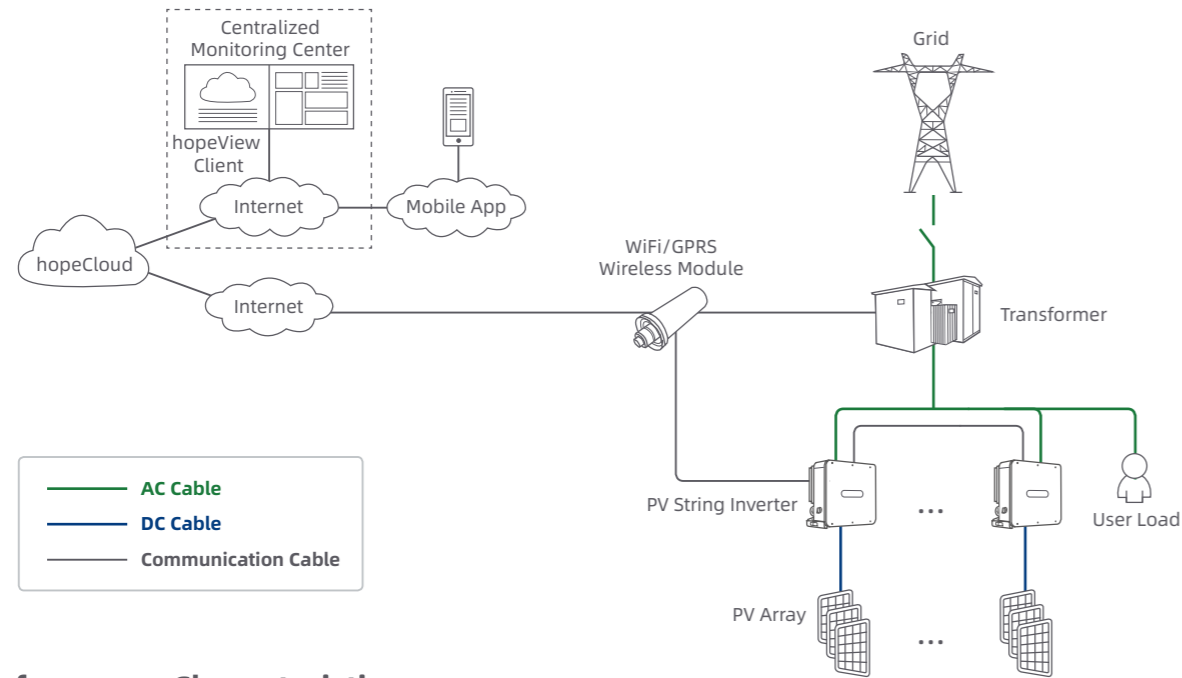
Communication Solution-WiFi/GPRS Wireless Module

Product Description

The **WiFi/GPRS wireless module** is used to extend the WiFi data transmission channel of the device. It supports mobile phone APP connection, monitoring, parameter settings, and can cooperate with hopeView cloud platform for effective monitoring.



For Small Household



Performance Characteristics



Easy to Use

- Support RS485 port connections, plug and play.
- Support cloud platform monitoring services.
- Support remote modification of local parameters, support remote firmware upgrade.



Flexible

- Support multiple data formats.
- Support fast adaptation of all kinds of equipment.



Stable

- Industrial components and designs, can work at high temperatures.
- Under voltage protection and built-in hardware watchdog, the system automatically restarts when fault happens.
- Real-time detection of online status, the device will never be dropped.

Technical Parameters

Model		GPRS Module
External Interface	Power Port	Power input: 5 ~ 24VDC
	Data Input Mode	RS485 (9600bps)
	Data Output Mode	GPRS
	Acquisition Baud Rate	9600 (default)
	Data Acquisition Interval	5 minutes
GPRS Parameter	Operating Frequency	GSM850 / EGSM900 / DCS1800 / PCS1900
	Antenna Gain	2.5dBi
	Maximum Transmission Rate	85.6Kbps
	Flow Card	Standardized GPRS Nano card (Including One-year usage)
Software Parameter	Application Layer Protocol	Modbus-RTU
	Network Layer Protocol	Modbus-TCP
	Parameter Setting	Remote server
General Parameters	Protection Level	IP65
	Installation Mode	Aviation connector installation
	Operating Temperature	-30°C ~ +85°C
Model		WiFi Module
External Interface	Docking Mode	DB9 / Aviation connector / RJ45 / 4Pin Socket
	Working Indicator	Power supply, networking, data transmission, data reception
WiFi Parameter	Operating Frequency	2.412GHz ~ 2.484GHz
	Wireless Standard	802.11 b/g/n
	Antenna Gain	2.5dBi (external)
	Data Rate	11Mbps@11b, 54Mbps@11g, 72Mbps@11n
	Hardware Encryption	WEP, WPA / WPA2
	Communication Distance	100m (open environment)
	Working Mode	AP + STA (coexistence mode)
Software Parameter	Supported Device Protocol	Modbus-RTU, Modbus-TCP
	Data Upload Cycle	5 minutes (default)
	Parameter Configuration Mode	APP
	Number of Clients in AP Mode	1 (preemptive)
Hardware Parameter	Data Input Mode	RS485 (9600bps)
	Data Output Mode	WiFi