

# Commercial Medium Power Inverter



**High Efficiency**

Max. DC voltage 1100V.  
Max efficiency 99.0%.  
Double channels MPPT.  
High precision & intelligent string detection.

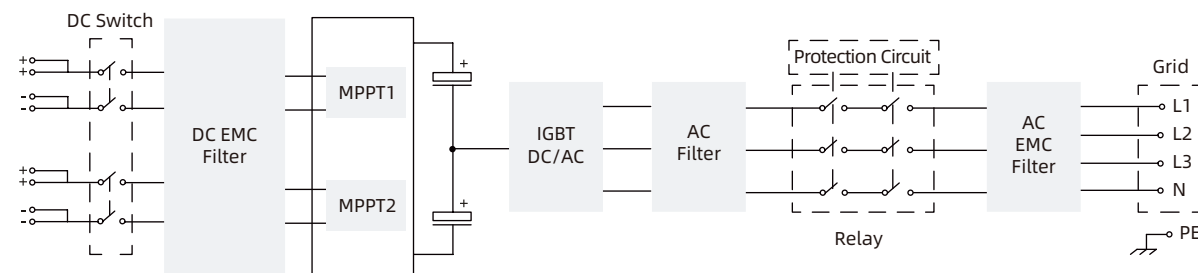


**Reliable**

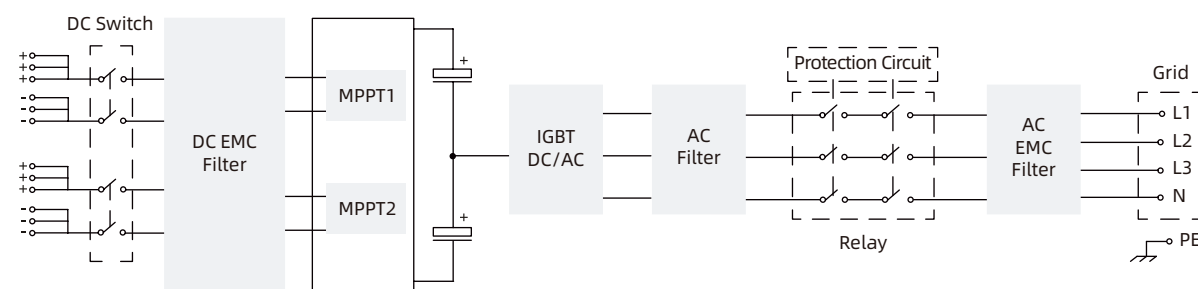
10K~22K natural cooling, 25K~33K smart air cooling.  
Compact structure, easy for installation and maintenance.  
Reliable under/over voltage protection, anti-islanding.  
Built-in AC and DC lightning protection module and provide full range of lightning protection.  
Mobile phone APP and check the status information of inverter.

## Topological Graph

20~25K



30/33K



## Technical Parameters

Model		BSM10K-B	BSM12K-B	BSM15K-B	BSM17K-B	BSM20K-B	BSM22K-B	BSM25K-B	BSM30K-B	BSM33K-B
DC Input	Max. DC Voltage	1100V								
	Startup voltage	450V								
	MPPT Voltage Range	450V ~ 1000V								
	Max. Input Current of Each MPPT	11A/11A	22A/11A		22A/22A		26A/26A	33A/33A		
	Number of DC Inputs	2	3		4		6			
	MPPT Number	2								
AC Output	Rated Output Power	10kW	12kW	15kW	17kW	20kW	22kW	25kW	30kW	33kW
	Max. Active Power (cosθ=1)	11kW	13.2kW	16.5kW	18.7kW	22kW	24.2kW	27.5kW	33kW	36.3kW
	Rated Output Voltage	400V (Three Phase)								
	Operating Voltage Range	300V-480V								
	Rated Output Current	14A	17A	22A	25A	29A	32A	36A	43.3A	47.6A
	Max. Output Current	16A	19A	24A	27A	32A	35A	39.7A	47.6A	
	Rated Grid Frequency	50Hz / 60Hz								
	Power Factor	0.8(Leading) ~ 0.8(Lagging)								
	THD	<3%								
	Max. Efficiency	98.60%	98.61%	98.62%	98.63%	98.65%	98.94%	99.00%	98.80%	
European Efficiency	98.30%						98.26%	98.50%	98.26%	
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						Smart Air Cooled			
Standby Power Consumption	<1W									
Topology Structure	Transformerless									
Operating Altitude	5000m (Derating above 4000m)									
Display	LED Indicator + APP									
Communication	RS485 / WiFi / GPRS									
Certification	IEC62109, IEC61000, IEC62116, IEC61727, EN50549, CQC, CGC									
Mechanical Parameters	Dimensions (W*H*D)	485*485*266mm								
	Weight	<30kg						<35kg		

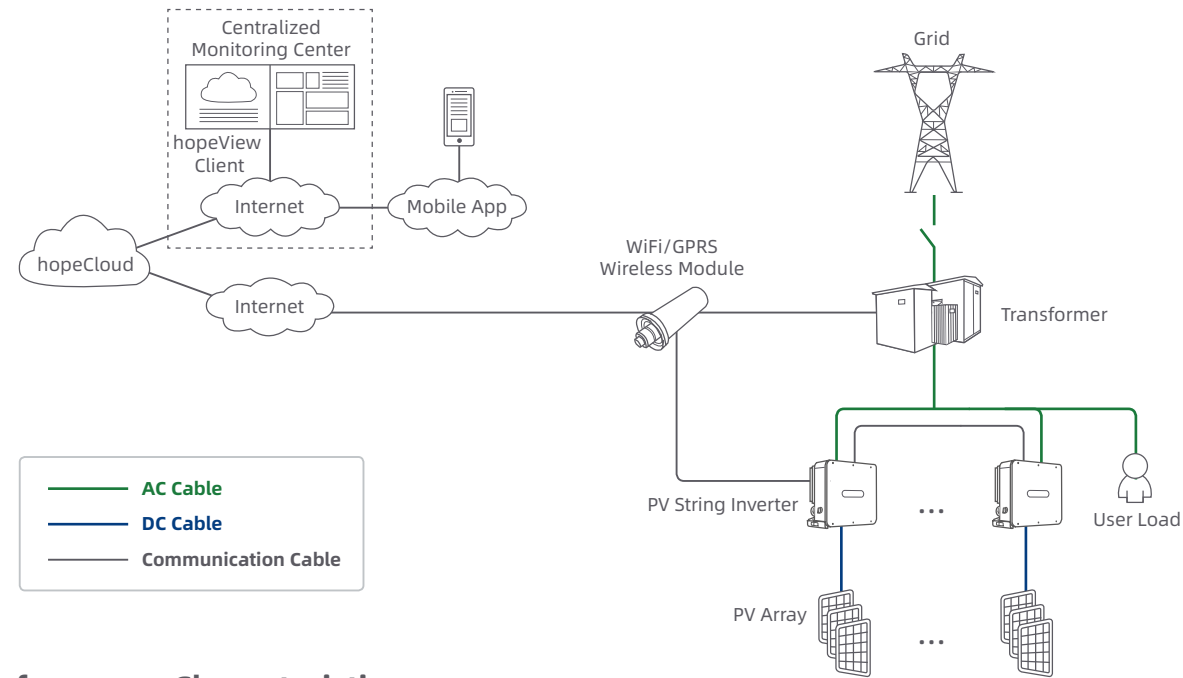
# Communication Solution-WiFi/GPRS Wireless Module

## 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