

BLUESUN String Inverters Brochure

More Intelligent PV Solutions

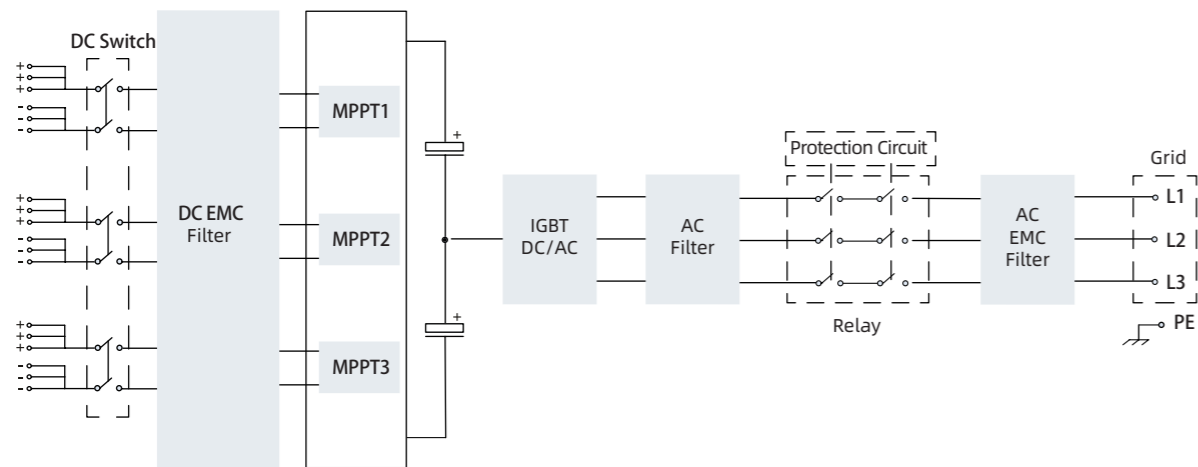
Commercial High Power Inverter



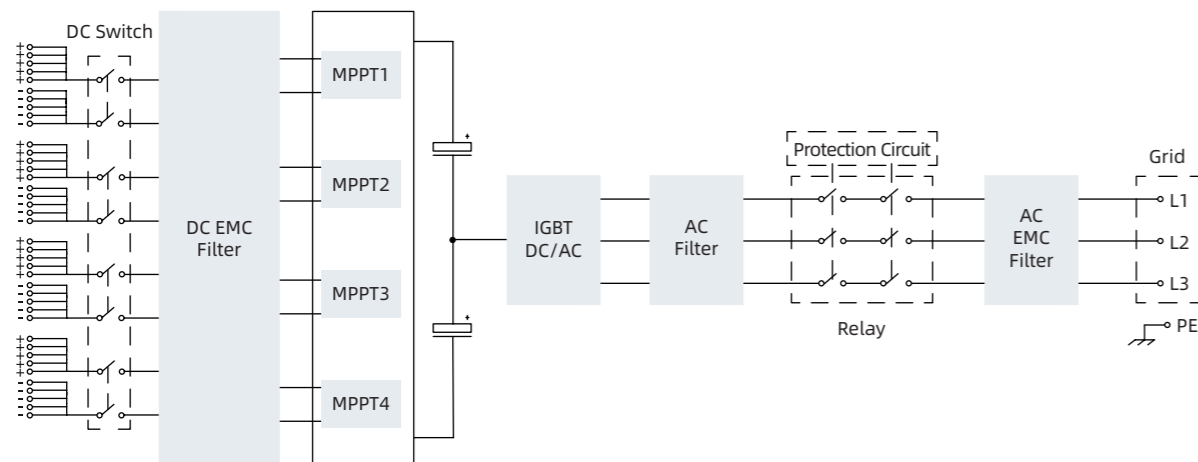
- High Efficiency**
 Max. DC voltage 1100V.
 Max. efficiency 99.03%.
 High precision & intelligent string detection.
- Reliable**
 36K~110K smart air cooling.
 Built-in AC and DC SPD protection module and provide full range of lightning protection.
 Night PID module.
- Friendly**
 Active and reactive power regulation. Support mobile phone APP and check the status information of status.

Topological Graph

36~40K



50~70K



Technical Parameters

Model	BSM36K -B	BSM40K -B	BSM50K -B	BSM60K -B	BSM70K -B	BSM75K -B	BSM100K -B	BSM110K -B	
DC Input	Max. DC Voltage								1100V
	Starting Voltage								250V
	MPPT Voltage Range								250V ~ 1000V
	MPPT Range Full Load								540V ~ 880V
	Max Current / MPPT		26A / 39A		39A		65A		
	Number of DC Inputs		8		9		12		18 20
	MPPT Number		3		4				
AC Output	Rated Output Power								36kW 40kW 50kW 60kW 70kW 75kW 100kW 110kW
	Max. Active Power								39.6kW 44kW 55kW 66kW 77kW 82.5kW 110kW 121kW
	Rated Output Voltage								400V (Three Phase)
	AC Voltage Range								400V±20%
	Rated Output Current		52.0A		57.7A		72.2A		86.5A 101A 108.2A 144A 158.8A
	Max. Output Current		57.2A		63.5A		79.4A		95.3A 111A 119A 158.8A 174.7A
	Rated Grid Frequency								50Hz / 60Hz
	Power Factor								0.8 (Leading) ~ 0.8 (Lagging)
	THD								<3%
	System Parameters	Max. Efficiency							
European Efficiency								98.45% 98.51% 98.51% 98.52% 98.52%	
AC/DC SPD								Support	
PV String Fault Detection								Support	
RCD								Support	
AC Overcurrent Protection								Support	
Cooling System								Smart Air Cooling	
Operating Temperature								-40°C ~ +60°C	
Protection Level								IP65	
Standby Power Consumption				<1W		<5W			
Topology Structure								Transformerless	
Operating Altitude								5000m (Derating above 4000m)	
Display								LED + APP	
Communication								RS485 / WiFi / GPRS	
DC Terminator								MC4	
AC Terminator		OT / DT (MAX 50mm ²)		OT / DT (MAX 95mm ²)		OT / DT (MAX 300mm ²)			
Certification								IEC62109 / IEC61000 / IEC62116 / IEC61727 / EN50549 / CQC / CGC	
Dimensions (W*H*D)				705*650*283mm				800*672*315mm	
Mechanical Parameters	Weight		<65kg		<75kg		<85kg		

Commercial Medium Power Inverter



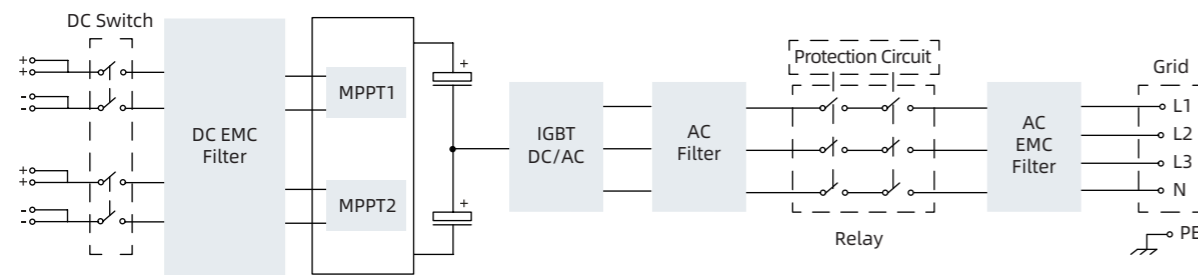
Max. DC voltage 1100V.
Max efficiency 99.0%.
Double channels MPPT.
High precision & intelligent string detection.



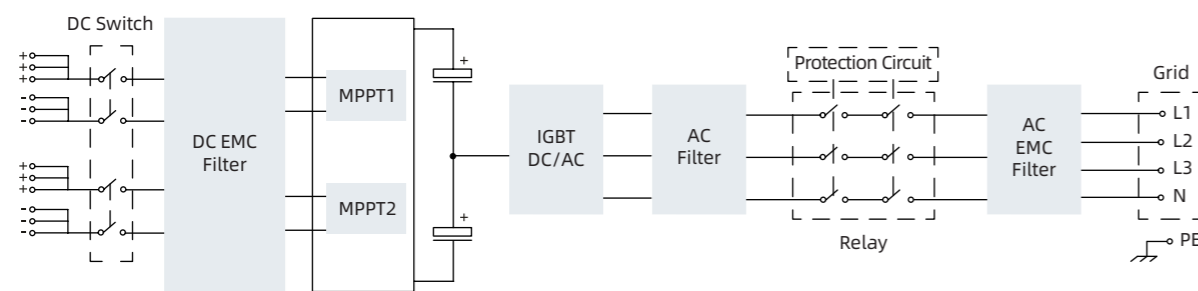
10K~22K natural cooling, 25K~33K smart air cooling.
Compact structure, easy for installation and maintenance.
Reliable under/over voltage protection, anti-islanding.
Built-in AC and DC lightning protection module and provide full range of lightning protection.
Mobile phone APP and check the status information 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								
	MPPT Voltage Range	250V ~ 1000V								
	Max. Input Current of Each MPPT	13A	26A / 13A			26A		39A		
	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	400V±20%								
	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	-40°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		

Residential PV Inverter



High Efficiency

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

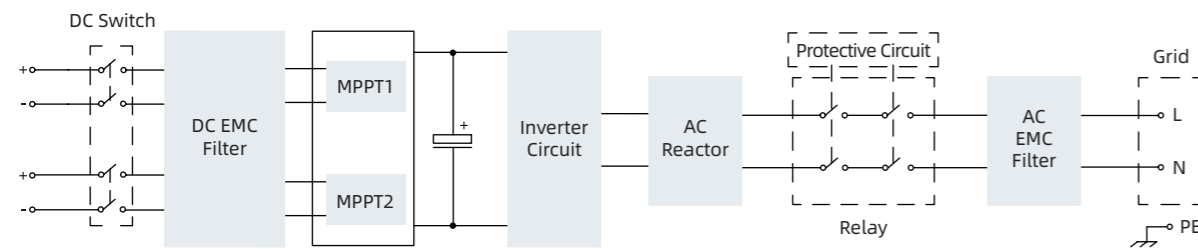


Reliable

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	BSM8K-B
DC Input	Max. DC Voltage	550V		
	MPPT Voltage Range	90V ~ 500V		
	Max. Input Current of Each MPPT	13A		26A / 13A
	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	176V ~ 276V		
	Max. Output Current	25A	30A	34.8A
	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	-40°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		

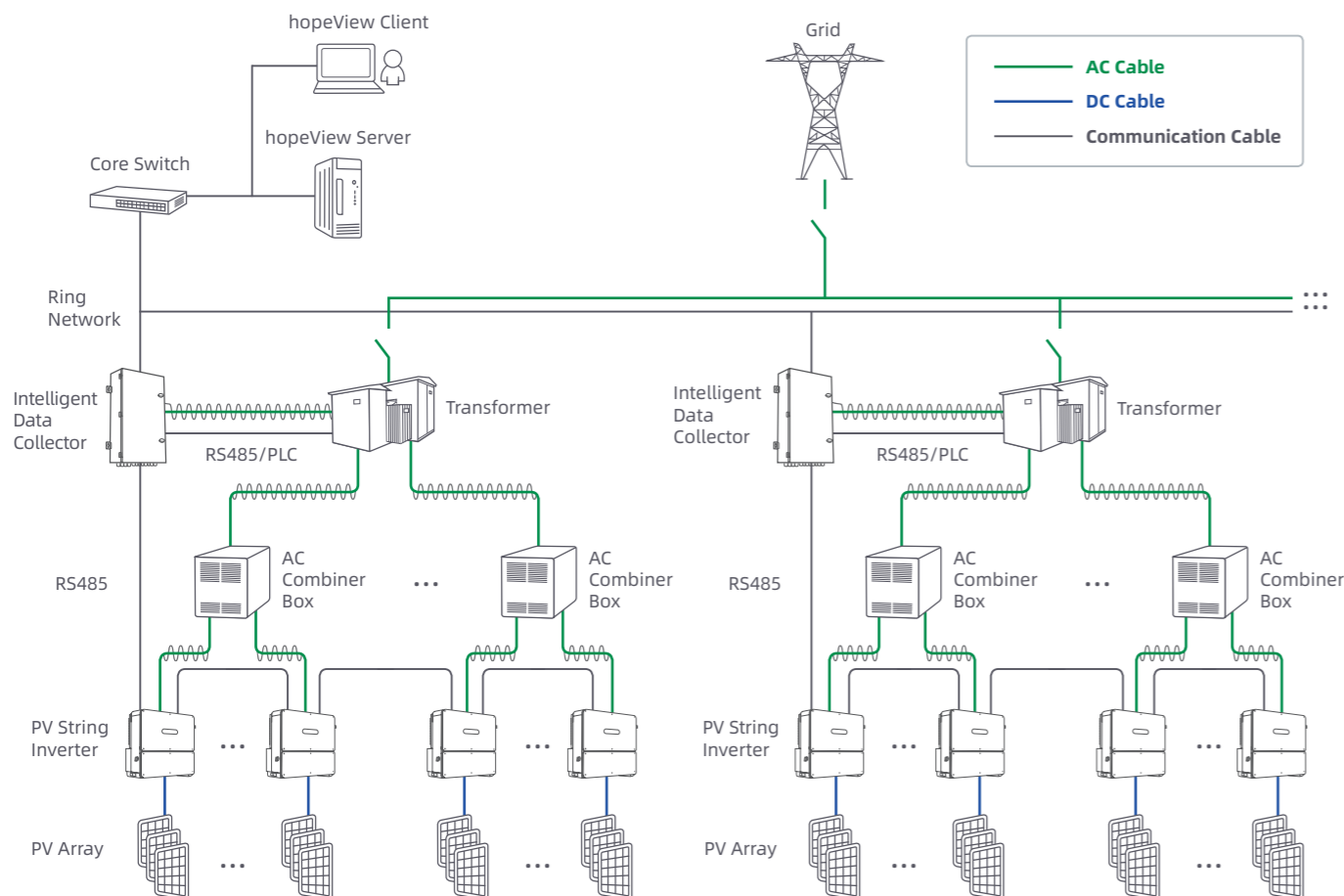
Communication Solution-Intelligent Data Collector

Product Description

The Intelligent Data Collector is mainly used for the photovoltaic network communication in the large-scale ground power plant. It integrates the functions of remote monitoring, data processing, equipment access, protocol conversion, and intelligent control and is a powerful data maintenance and acquisition device. The device and the inverter establish efficient data interaction to implement network debugging, remote monitoring, and centralized monitoring functions.



Large Ground PV Station



Performance Characteristics

<p>Excellent Performance</p> <ul style="list-style-type: none"> Linux Embedded Operating System 32-bit ARM-iMX25 series microprocessor Memory DDR2 64MB 	<p>Interface</p> <ul style="list-style-type: none"> 8 DI (dry contact and isolated DI input), 4 DO interfaces (relay) 6 AI/AO interfaces (4 current, 2 voltage) 2 PT100 temperature detection, 2 CAN communication interfaces, 1 high-speed SD USB 2.0 high-speed interface, maximum speed 480Mbps (optional)
<p>Communication</p> <ul style="list-style-type: none"> PLC, RS485, Ethernet, optical fiber, etc. Optional wireless transmission methods such as GPRS, WiFi, ZigBee, 3G, 4G Communication protocols such as IEC60870-5-103, IEC60870-5-104, Modbus-RTU, Modbus-TCP, CDT 	<p>Function</p> <ul style="list-style-type: none"> Full-featured configuration debugging tool, friendly interface, easy to use, configuration and debugging of data collector communication management, including interface configuration, protocol configuration, forwarding configuration, message monitoring, data viewing, data storage, etc.

Technical Parameters

Model		BSM2000-S
Communication Interface	Data collector	8 RS485, maximum 256 devices to be managed
	Fiber Switch	2 optical 2 electrical fiber switches
	Fiber Optic Terminal Box	4 in 24 out SC single mode fiber optic terminal box
System parameters	Operating temperature	-40°C ~ +60°C
	Storage temperature	-40°C ~ +70°C
	Humidity	5% ~ 95%, No condensation
	Altitude	≤5000m
	Protection degree	IP65
	Display	Support
	Power supply	AC220V, 50/60Hz
	Inlet and outlet	Down inlet and down outlet
	Inlet specifications	AC220V: 1.0mm outdoor UV-proof wire
Optical cable	Single-mode fiber optic cable with diameter ≤14mm	
Mechanical parameter	Size (W*H*D)	410*700*175mm
	Weight	≤15kg

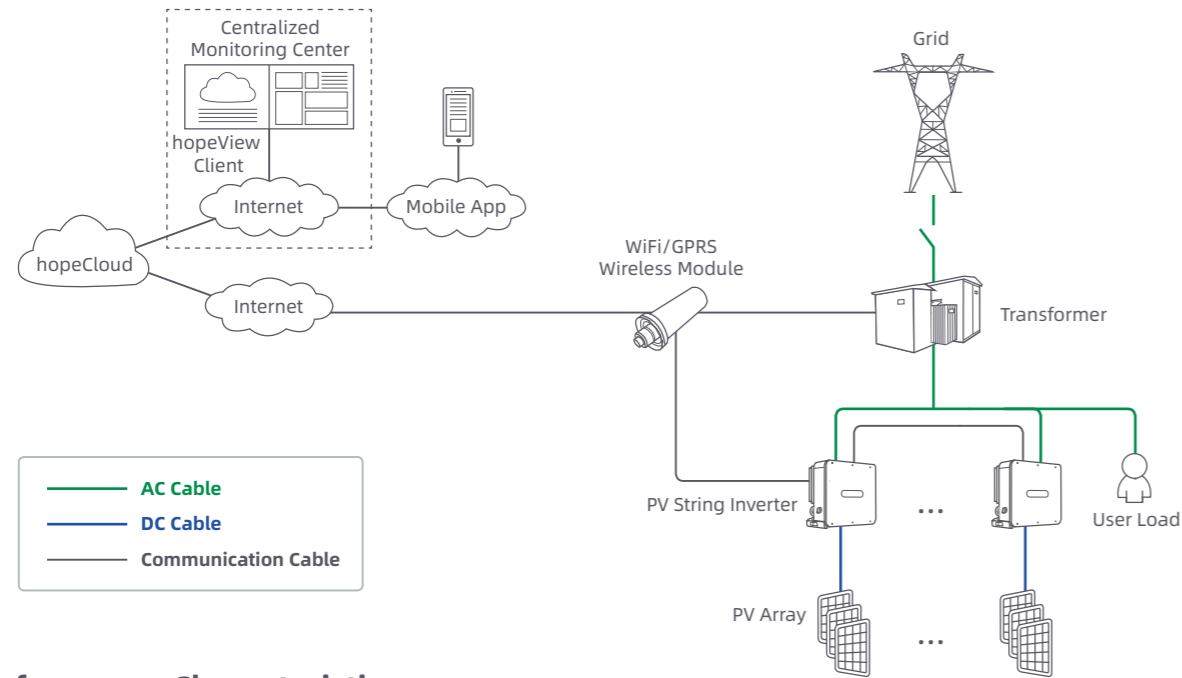
Communication Solution-WiFi/GPRS Wireless Module

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

Project Cases

Ukraine 15MW Solar Plant



Brazil 500kW Rooftop Project



Residential PV Project in China



Roof-top PV Project in Hunan China



Poverty Alleviation PV Project in Hebei



Rooftop PV Project in Shandong



Project Cases



Roof-top PV Project in Dingyuan,
Chuzhou, Anhui Province



Roof-top Project Xixie'er, Qidong City,
Besheng, Jiangsu Province

Street-usage PV Station Lingyang, Ju county,
Rizhao City, Shandong Province



Solar Renewable Project in Anqiu



CNNC 2.8MW PV Project in Weihai,
Shandong Province



Grinding Project Shantian, Linshu
County, Linyi City, Shandong Province

12MW Dalian Roof-top PV Project in
China

