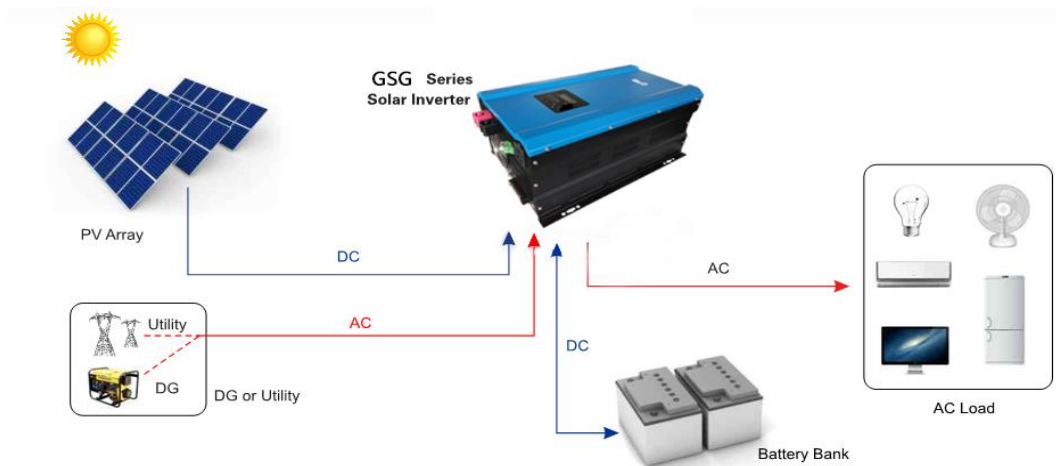




Household Energy Storage System

Introduction

Supply electricity for some residents without grid or with instable grid



Output 110/220/230/240VAC±1%; Frequency 50/60±1%Hz

Product advantages

- Applicable to off-grid or instable grid
- Environment friendly, convenient, longlife
- Fasv to install and use
- Seamless power switch
- Can be customized

Technical data

Type	Total load	Available Energy	Charging	Recommended
500W Off-grid system	≤500W	2kWh	8h	≤1.2kWh
1000W Off-grid system	≤1000W	4.2kWh	8h	≤2.1kWh
2KW Off-grid system	≤2000W	8.4kWh	8h	≤4.2kWh
3KW off grid system	≤3000W	8.4kWh	8h	≤4.2kWh
4KW off grid system	≤4000W	10kWh	8h	≤5kWh
5KW off grid system	≤5000W	16.8kWh	8h	≤8.4kWh
10KW off grid system	≤10KW	37.8kWh	8h	≤18.9kWh
15KW off grid system	≤15KW	42kWh	8h	≤21kWh
20KW off grid system	≤20KW	67.2kWh	8h	≤33.6kWh

**500W Off-grid system**

1. Total load≤500W; 2. provide 2kWh; 2.Battery fill time need 8h; 3. Recommended daily consumption 1-1.2kWh.

Configuration

NO.	Product name	Specification	Qty	Note:
1	Solar panel	POLY275W	2 pcs	2 in series
2	Bracket	C-type steel	1 set	Hot dip galvanized
3	Inverter&Controller integrated cabinet with battery pack	VDC24-500W	1 pcs	1, 20A PWM controller built-in 2,Power frequency sine wave output 3, Grid/Diesel input supported
4	Lead acid battery	12V-120AH	2 pcs	Daily discharge: 2kWh; 2 in series connection
5	Connector	MC4	2 pairs	
6	PV Cable	PV-F1*4mm ²	40M	Panels to Inverter&Controller integrated cabinet
7	Cable	BVR16 mm ²	20M	Connecting cables between batteries and battery pack to controller&Inverter BAT terminal

1000W Off-grid system

1. Total load≤1000W; 2. provide 4.2kWh; 2.Battery fill time need 8h; 3. Recommended daily consumption ≤2.1kWh.

Configuration

No.	Product name	Specification	Qty	Note:
1	Solar panel	POLY-275W	4pcs	2 in series connection* 2 parallel, 2 parallel connected for 1 by MC transfer connector
2	Bracket	C-type Steel	1set	Hot dip galvanized
3	Inverter&Controller integrated cabinet with battery pack	VDC24-2KVA	1set	1, 60A PWM controller built-in 2,Power frequency sine wave output 3, Grid/Diesel input supported
4	Lead acid battery	12V-250AH	2pcs	Daily discharge : 4.2kWh ; 2 in series
5	Connector	MC4	4pairs	
6	Transfer connector		1pair	
7	PV Cable	PV-F1*4mm ²	40M	Panels to Inverter&Controller integrated cabinet
8	Cable	BVR16 mm ²	20M	Connecting cables between batteries and battery pack to controller&Inverter BAT terminal

2KW Off-grid system

1. Total load≤2000W; 2. provide 8.4kWh; 2.Battery fill time need 8h; 3. Recommended daily consumption ≤4.2kWh.

Configuration

No.	Product name	Specification	Qty	Note
1	Solar panel	POLY-275W	6pcs	3 series connection* 2 parallel
2	Bracket	C-type Steel	1set	Hot dip galvanized
3	Inverter&Controller integrated cabinet	VDC48-3KVA	1set	1, 60A MPPT controller built-in 2,Power frequency sine wave output 3, Grid/Diesel input supported
4	Lead acid battery	12V-250AH	4pcs	Daily discharge : 8.4kWh ; 4 in series connection
5	Cable	PV-F1*4mm ²	40M	Panels to Inverter&Controller integrated cabinet
		BVR-16mm ²	10M	Batteries to (battery end of)Inverter&Controller integrated cabinet
		BVR-4mm ²	10M	Inverter&Controller integrated cabinet AC output
6	Battery pack	Angle steel	1	Connecting wires between batteries included
7	Connector	MC4	4pairs	
8	Transfer connector		1pair	

**3KW off grid system**

1. Total load≤3000W; 2. provide 8.4 kWh; 2.Battery fill time need 8h; 3. Recommended daily consumption ≤4.2kWh.

Configuration

No	Product name	Specification	Qty	Note
1	Solar panel	POLY-275W	9pcs	3 series connection* 3 parallel
2	Bracket	C-type steel	1set	Hot dip galvanized
3	Solar Combiner box	FSB4-1	1set	Lightning protection ; Fuse; Water-proof;
4	Inverter&Controller integrated cabinet	VDC48-4KVA	1set	1, 60A MPPT controller built-in 2,Power frequency sine wave output 110/220/230/240VAC±1%;50/60±1%Hz 3, Grid/Diesel input supported
5	Lead acid battery	12V-250AH	4pcs	Daily discharge : 8.4kWh ; 4 in series connection
6	Cable	PV-F1*4mm ²	60M	Panels to Combiner
		BVR-16mm ²	30M	Combiner to Inverter&Controller integrated cabinet
		BVR-16mm ²	10M	Batteries to (battery end of)Inverter&Controller integrated cabinet
		BVR-4mm ²	10M	Inverter&Controller integrated cabinet to AC power distribution cabinet
7	Battery rack	Angle steel	1set	Connecting wires between batteries included
8	AC power distribution cabinet	4KW/220VAC	1set	Air switch、 fusing , Lightning protection
9	Connector	MC4	6pairs	

4KW off grid system

1. Total load≤4000W; 2. provide10.08 kWh; 2.Battery fill time need 8h; 3. Recommended daily consumption ≤5kWh.

Configuration

No	Product name	Specification	Qty	Note
1	Solar panel	POLY-275W	9pcs	3 series connection* 3 parallel
2	Bracket	C-type steel	1set	Hot dip galvanized
3	Solar Combiner box	FSB4-1	1set	Lightning protection ; Fuse; Water-proof;
4	Inverter&Controller integrated cabinet	VDC48-5KVA	1set	1, 60A MPPT controller built-in 2,Power frequency sine wave output 110/220/230/240VAC±1%;50/60±1%Hz 3, Grid/Diesel input supported
5	Lead acid battery	12V-150AH	8pcs	Daily discharge : 10.08kWh ; 4 in series connection* 2 parallel
6	PV cable	PV-F1*4mm ²	60M	Panels to Combiner
		BVR-16mm ²	30M	Combiner to Inverter&Controller integrated cabinet
		BVR-25mm ²	10M	Batteries to (battery end of)Inverter&Controller integrated cabinet
		BVR-4mm ²	10M	Inverter&Controller integrated cabinet to AC power distribution cabinet
7	Battery rack	Angle steel	1set	Connecting wires between batteries included
8	AC power distribution cabinet	5KW/220VAC	1set	Air switch、 fusing , Lightning protection
9	Connector	MC4	6pairs	



5KW off grid system				
1. Total load≤5000W; 2. provide 16.8 kWh; 2.Battery fill time need 8h; 3. Recommended daily consumption ≤8.4kWh.				
Configuration				
No	Product name	Specification	Qty	Note
1	Solar panel	POLY-275W	18pcs	6 series connection* 3 parallel
2	Bracket	C-type steel	1set	Hot dip galvanized
3	Solar Combiner box	FSB4-1	1set	Lightning protection ; Fuse; Water-proof;
4	Inverter&Controller integrated cabinet	VDC96-8KVA	1set	1, 50A MPPT controller built-in
				2,Power frequency sine wave output 110/220/230/240VAC±1%;50/60±1%Hz
				3, Grid/Diesel input supported
5	Lead acid battery	12V-250AH	8pcs	Daily discharge : 16.8kWh ; 8 in series connection
6	Cable	PV-F1*4mm ²	60M	Panels to Combiner
		BVR-16mm ²	30M	Combiner to Inverter&Controller integrated cabinet
		BVR-16mm ²	10M	Batteries to (battery end of)Inverter&Controller integrated cabinet
		BVR-6mm ²	10M	Inverter&Controller integrated cabinet to AC power distribution cabinet
7	Battery rack	Angle steel	1set	Connecting wires between batteries included
8	AC power distribution cabinet	8KW/220VAC	1set	Air switch、 fusing , Lightning protection
9	Connector	MC4	6pairs	

10KW off grid system				
1. Total load≤10KW; 2. provide 37.8kWh; 2.Battery fill time need 8h; 3. Recommended daily consumption ≤18.9kWh.				
Configuration				
No	Product name	Specification	Qty	Note
1	Solar panel	POLY-275W	30pcs	10 series connection* 3 parallel
2	Bracket	C-TYPE	1set	Hot dip galvanized
3	Solar Combiner box	FSB4-1	1set	Lightning protection ; Fuse; Water-proof;
4	Inverter&Controller integrated cabinet	VDC220-15KVA/50A	1set	1, 50A MPPT controller built-in
				2,Power frequency sine wave output 110/220/230/240VAC±1%;50/60±1%Hz
				3, Grid/Diesel input supported
5	Lead acid battery	12V-250AH	18pcs	Daily discharge : 37.8kWh ; 18 in series connection
6	Cable	PV-F1*4mm ²	60M	Panels to Combiner
		BVR-16mm ²	30M	Combiner to Inverter&Controller integrated cabinet
		BVR-16mm ²	10M	Batteries to (battery end of)Inverter&Controller integrated cabinet
		BVR-16mm ²	10M	Inverter&Controller integrated cabinet to AC power distribution cabinet
7	Battery rack	Angle steel	1set	Connecting wires between batteries included
8	AC power distribution cabinet	10KW/220VAC	1set	Air switch、 fusing , Lightning protection
9	Connector	MC4	6pairs	



15KW off grid system				
1. Total load≤15KW; 2. provide 42kWh; 2.Battery fill time need 8h; 3. Recommended daily consumption ≤21kWh.				
Configuration				
No	Product name	Specification	Qty	Note
1	Solar panel	POLY-275W	50pcs	10 series connection* 5 parallel
2	Bracket	C-TYPE	1set	Hot dip galvanized
3	Solar Combiner box	FSB6-1	1set	Lightning protection ; Fuse; Water-proof;
4	Inverter&Controller integrated cabinet	VDC240-20KVA	1set	1, 50A MPPT controller built-in 2,Power frequency sine wave output 110/220/230/240VAC±1%;50/60±1%Hz 3, Grid/Diesel input supported
5	Lead acid battery	12V-250AH	20pcs	Daily discharge : 42kWh ; 20 in series connection
6	Cable	PV-F1*4mm ²	100M	Panels to Combiner
		BVR-16mm ²	30M	Combiner to Inverter&Controller integrated cabinet
		BVR-16mm ²	10M	Batteries to (battery end of)Inverter&Controller integrated cabinet
		BVR-25mm ²	10M	Inverter&Controller integrated cabinet to AC power distribution cabinet
7	Battery rack	Angle steel	1set	Connecting wires between batteries included
8	AC power distribution cabinet	15KW/220VAC	1set	Air switch、 fusing , Lightning protection
9	Connector	MC4	10pairs	
20KW off grid system				
1. Total load≤20KW; 2. provide 67.2kWh; 2.Battery fill time need 7h; 3. Recommended daily consumption ≤33.6kWh.				
Configuration				
No	Product name	Specification	Qty	Note
1	Solar panel	POLY-275W	72pcs	12 series connection* 6 parallel
2	Bracket	C-TYPE	1set	Hot tip galvanized
3	Solar Combiner box	FSB4-1	2set	Lightning protection ; Fuse; Water-proof;
4	Inverter&Controller integrated cabinet	VDC240-30KVA	1set	1, 100A MPPT controller built-in 2,Power frequency sine wave output 110/220/230/240VAC±1%;50/60±1%Hz 3, Grid/Diesel input supported
5	Lead acid battery	12V-200AH	40pcs	Daily discharge : 67.2kWh ; 20 in series connection*2 parallel
6	Cable	PV-F1*4mm ²	120M	Panels to Combiner
		BVR-16mm ²	80M	Combiner to Inverter&Controller integrated cabinet
		BVR-25mm ²	10M	Batteries to (battery end of)Inverter&Controller integrated cabinet
		BVR-25mm ²	10M	Inverter&Controller integrated cabinet to AC power distribution cabinet
7	Battery rack	Angle steel	1set	Connecting wires between batteries included
8	AC power distribution cabinet	25KW/220VAC	1set	Air switch、 fusing , Lightning protection
9	Connector	MC4	12pairs	



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