

HESS Series

**Home Energy Storage Products
Most Affordable Solar Battery Storage Solution**



SHENZHEN GSL TECH CO LTD

① Inverter



① GSL GS series off-grid inverter

The inverter converts the DC power produced by PV modules into AC power. The electricity is then primarily used by the loads, then being charged into the battery packs.

In combination with the batteries, this inverter help maximize the PV self-use in the household.

② Lithium-ion battery packs

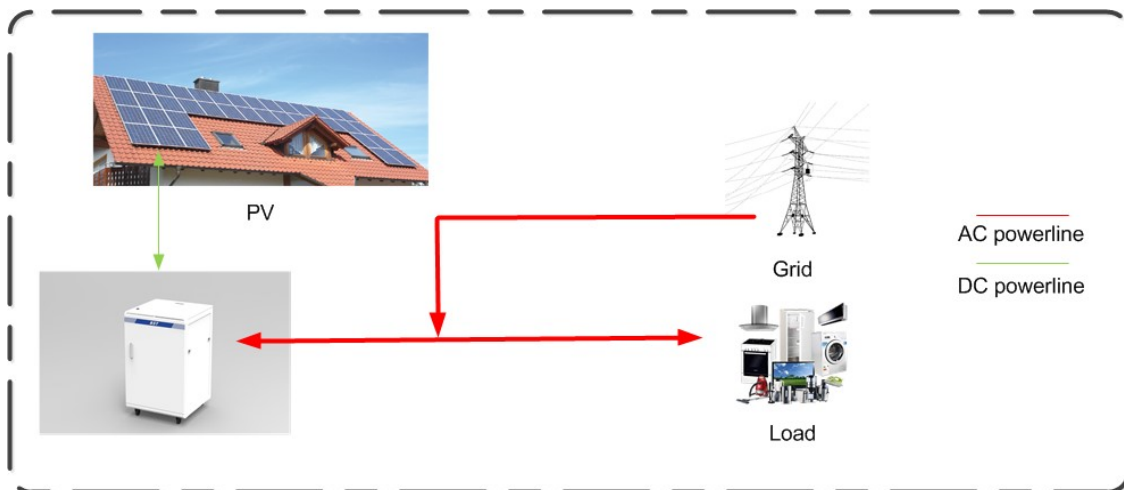
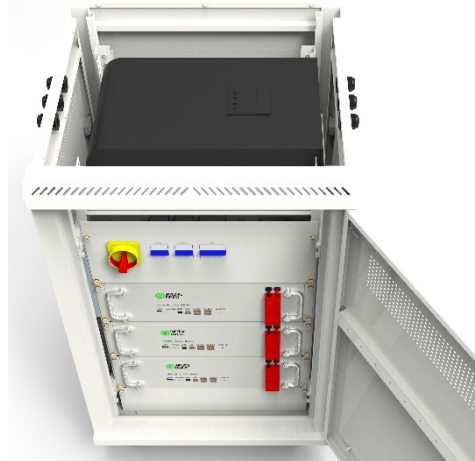


② Lithium battery packs

Lithium battery system stores the energy generated from solar energy and increases self-use from 30% to 70%; 2.5-5.0kWh battery modular design, 3 modules of max.15kWh in the standard system.

- ✓ Unbelievable price
- ✓ Grid export limit option available
- ✓ Save up to 70% household energy bill
- ✓ Protect your family from power outages

Overview



Work Mode:

① Solar first mode:

Solar energy provides power to the loads as first priority. If solar energy is not sufficient to power all connected loads, battery energy will supply power to the loads at the same time. Utility provides power to the loads only when any one condition happens:

- Solar energy is not available
- Battery voltage drops to either low-level warning voltage or the setting point

② Utility first mode:

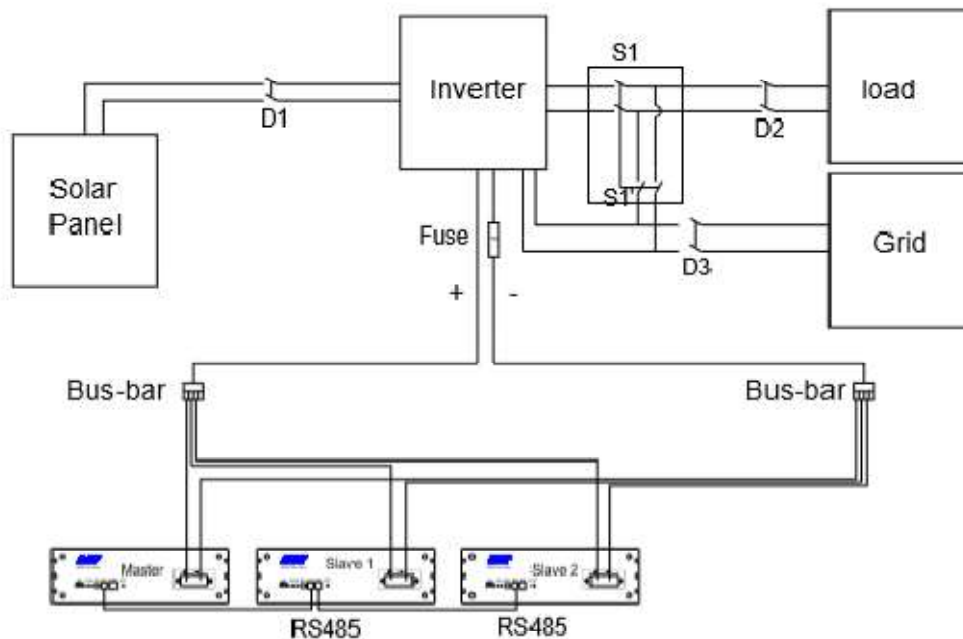
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③ SBU priority

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Overview

Inverter	HESS8030	HESS8050	HESS1050
PV Input			
Max. Input Power	3500W	7000W	7000W
Max. DC Voltage	110 VDC	110VDC	110VDC
MPPT Voltage Range	50-110VDC	50~115VDC	50~115VDC
Max. Input Current	30A	60A	60A
Battery Charging /Discharging			
Rated power	8KW	8KW	10KW
Operation voltage range		45~54v	
Max. Solar charging current	30A	50A	50A
Max. AC charging current	30A	60A	60A
Max. charging current	80A	110A	110A
Max. discharging current	80A	110A	110A
AC Output			
Output Power (W)	3000W	5000W	5000W
Output voltage range (Off-grid)		170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances);	
Output voltage range		230Vac±5%,50Hz/60Hz	
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)		
waveform	Pure sine wave		
Other Parameters			
IP Protection class		IP20	
Noise		< 45 dB	
Dimension(WxHxD)		1000 x 650 x 600 mm3	
Weight	130Kg	160Kg	185Kg
Cooling		Natural cooling	
Battery Packs			
		Lithium-ion Battery	
Battery Capacity	8KWh		10KWh
Module Usable Capacity	4KWh		5KWh
Nominal voltage		48V	
Battery Cycle Life		>6000 Times(80% DOD,@25°C)	
Module Weight	30Kg		60kg
Module Dimension(WxHxD)	400*480*132mm3*2		400*480*285mm3*2
System			
Interface		LCD display/RS485 communication	
Warranty		5-year standard, 10-year extendable	
Operating Temperature Range		0 ° C to +55 ° C	
AC Parallel	NO		YES

Overview

Inverter	HESS1250	HESS1550
PV Input		
Max. Input Power	7000W	7000W
Max. DC Voltage	110V	110V
MPPT Voltage Range	50~110V	50~115V
Max. Input Current	60A	60A
Battery Charging /Discharging		
Rated power	5KW	5KW
Operation voltage range		45~54v
Max. Solar charging current	50A	50A
Max. AC charging current	60A	60A
Max. charging current	110A	110A
Max. discharging current	110A	110A
AC Output		
Output Power (W)	5000W	5000W
Output voltage range (Off-grid)		170-280 VAC (For Personal Computers) ; 90-280 VAC (For Home Appliances);
Output voltage range		230Vac±5%,50Hz/60Hz
Transfer Time	10 ms (For Personal Computers) ; 20 ms (For Home Appliances)	
waveform		Pure sine wave
Other Parameters		
IP Protection class		IP20
Noise		< 45 dB
Dimension(WxHxD)		1400 x 650 x 600 mm3
Weight	185Kg	220Kg
Cooling		Natural cooling
Battery Packs		
		Lithium-ion Battery
Battery Capacity	12KWh	15KWh
Module Usable Capacity	4KWh	5KWh
Nominal voltage		48V
Battery Cycle Life		>6000 Times(80% DOD,@25°C)
Module Weight	45Kg	60kg
Module Dimension(WxHxD)	400*480*285mm3*3	400*480*285mm3*3
System		
Interface		LCD display/RS485 communication
Warranty		5-year standard, 10-year extendable
Operating Temperature Range		0 ° C to +55 ° C
AC Parallel	NO	NO