



SINGLE PHASE 12KW ALL-IN-ONE

20~60kWh Home Energy Storage Battery + 12Kw Single Phase Inverter



20Kwh + 12Kw



30Kwh + 12Kw

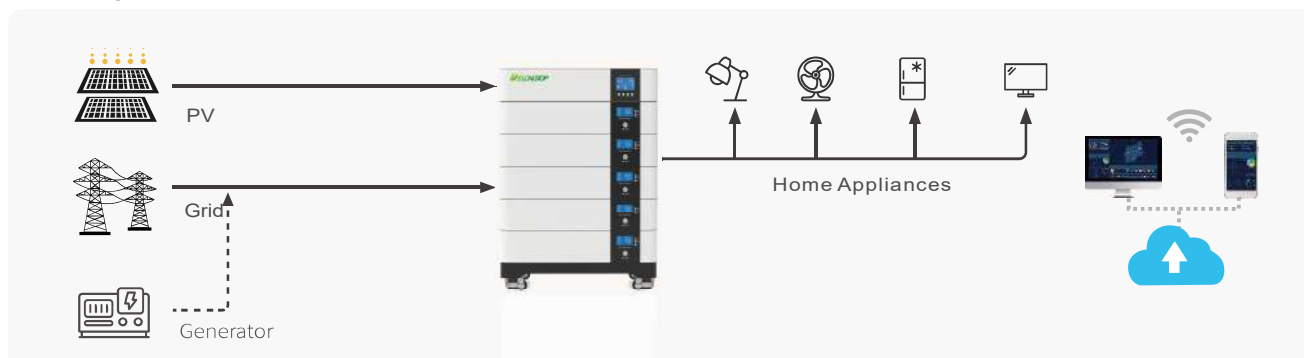


50Kwh + 12Kw

12Kw Inverter
Terminal Panel



Solar System Connection



Specification

Battery Specifications					
Battery Module Model	HS51200-10			LFP51300	
Nominal Voltage	51.2V			51.2V	
Nominal Capacity	200Ah			280Ah/314Ah	
Battery Energy	10.24Kwh			14.336Kwh / 16.076Kwh	
Charge Current	Recommend / 40A ; Max. / 100A				
Discharge Current	Recommend / 100A ; Max. / 200A				
Max Discharge Current	205A(5 sec.)				
Charging Cut-off Voltage	57.6V± 0.2V				
Discharging Cut-off Voltage	44.8V± 0.2V				
Inverter Specifications					
Model	AL48V-E12K				
AC Mode					
Rated input voltage	230Vac ±5%				
Input voltage range	(170Vac~280Vac)±2%@UPS (90Vac-280Vac)±2%@APL				
Frequency	50Hz/60Hz (Auto detection)				
Efficiency	>93%				
Conversion time (bypass and inverter)	10ms (typical)				
Maximum bypass overload current	40A				
Inverter Mode					
Output voltage waveform	Pure sine wave				
Rated output power (VA)/(W)	12000VA / 12000W				
Rated output voltage (Vac)	230Vac				
Output voltage error	±5%				
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz				
Maximum Efficiency	>93%				
AC Charging					
Maximum charge current(can be set)	150A				
Charge current error	±5Adc				
Charge voltage range	40 ~ 60Vdc				
PV Charging					
Number of MPPTs	2				
Maximum PV open circuit voltage	500Vdc				
PV operating voltage range	120-500Vdc				
MPPT voltage range	90-450Vdc				
Maximum PV input power	6000W+6000W				
Maximum PV input current	27A+27A				
PV charging current range(can be set)	0-150A				
Hybrid charging Max charger current specifications (AC charger+PV charger)					
PV charging current range (can be set)	0-150A				
All-in-one machine specifications					
Item	20Kwh + 12Kw	30Kwh + 12Kw	40Kwh + 12Kw	45Kwh + 12Kw	60Kwh + 12Kw
Battery Module Model * Number	HS51200-10 * 2	HS51200-10 * 3 or LFP51300 * 2	HS51200-10 * 4	LFP51300 * 3	LFP51300 * 4
Energy	20Kwh	28~32Kwh	40Kwh	43~48Kwh	57~64.3Kwh
Overall size	690*590*565mm	690*590*710/761mm	690*590*855mm	690*590*1004mm	690*590*1247mm
Overall Weight	≈212Kg	≈297.5Kg / 277Kg	≈383Kg	≈395Kg	≈513Kg
General specifications					
Operating temperature range	0°C to 55°C,> 45°C drop runs				
Storage temperature range	-10°C ~ 55°C				
Humidity range	5% to 95% (Conformal coating protection)				
Heat dissipation	Forced air cooling, variable speed of fan				
Communication interface	USB/RS485/WiFi(Optional)/ Dry node control				



SPLIT PHASE 12KW ALL-IN-ONE

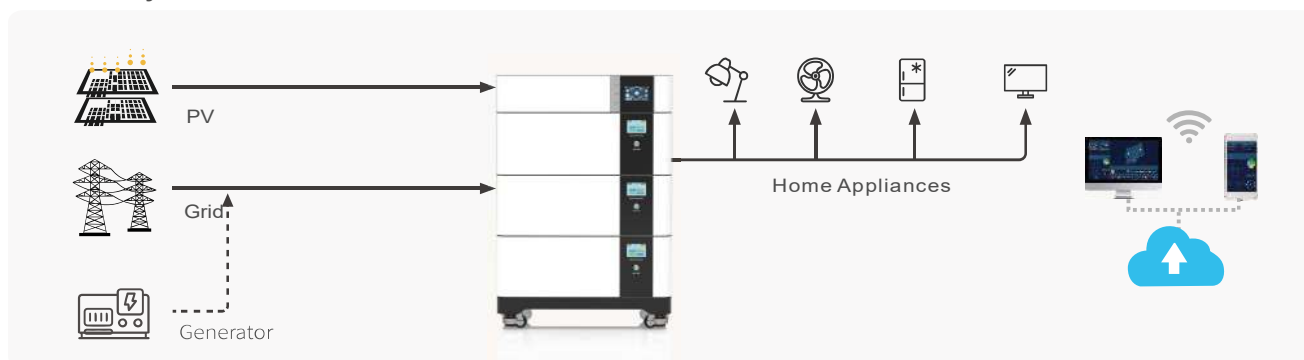
20~60kWh Home Energy Storage Battery + 12Kw Split Phase Inverter



Split Phase
12Kw Inverter
Terminal Panel



Solar System Connection



Specification

Battery Specifications					
Battery Module Model	HS51200-10			LFP51300	
Nominal Voltage	51.2V			51.2V	
Nominal Capacity	200Ah			280Ah/314Ah	
Battery Energy	10.24Kwh			14.336Kwh / 16.076Kwh	
Charge Current	Recommend / 40A ; Max. / 100A				
Discharge Current	Recommend / 100A ; Max. / 200A				
Max Discharge Current	205A(5 sec.)				
Charging Cut-off Voltage	57.6V± 0.2V				
Discharging Cut-off Voltage	44.8V± 0.2V				
Inverter Specifications					
Model	AL48V-M12K				
AC Mode					
Rated input voltage	120(L1/N, L2/N) / 240Vac(L1/L2)				
Input voltage range	(85Vac~140Vac)±2%				
Frequency	50Hz / 60Hz (Auto detection)				
Efficiency	>93%				
Conversion time (bypass and inverter)	10ms (typical)				
Maximum bypass overload current	2P, 63A/63A(L1/L2)				
Inverter Mode					
Output voltage waveform	Pure sine wave				
Rated output power (VA)/(W)	Split phase:12000VA/12000W Single phase:7200VA/7200W (limited by the wiring terminals)				
Rated output voltage (Vac)	120Vac (L1/N, L2/N) / 240Vac(L1/L2)				
Output voltage error	±5%				
Output frequency range (Hz)	50Hz±0.3Hz / 60Hz±0.3Hz				
Maximum Efficiency	>90%				
AC Charging					
Maximum charge current(can be set)	160A				
Charge current error	±5Adc				
Charge voltage range	40 –58.6Vdc				
PV Charging					
Number of MPPTs	2				
Maximum PV open circuit voltage	500Vdc				
PV operating voltage range	90Vdc~500Vdc				
MPPT voltage range	90Vdc~450Vdc				
Maximum PV input power	6000W+6000W				
Maximum PV input current	22A+22A				
PV charging current range(can be set)	0-200A				
Hybrid charging Max charger current specifications (AC charger+PV charger)					
PV charging current range (can be set)	0-200A				
All-in-one machine specifications					
Item	20Kwh + 12Kw	30Kwh + 12Kw	40Kwh + 12Kw	45Kwh + 12Kw	43~48Kwh
Battery Module Model * Number	HS51200-10 * 2	HS51200-10 * 3 or LFP51300 * 2	HS51200-10 * 4	LFP51300 * 3	LFP51300* 4
Energy	20Kwh	28~32Kwh	40Kwh	43~48Kwh	57~64.3Kwh
Overall size	690*590*565mm	690*590*710/761mm	690*590*855mm	690*590*1004mm	690*590*1000mm
Overall Weight	≈216Kg	≈301.5Kg / 281Kg	≈387Kg	≈399Kg	≈472.5Kg
General specifications					
Operating temperature range	0°C to 55°C,> 45 °C drop runs				
Storage temperature range	-10°C ~ 55°C				
Humidity range	5% to 95% (Conformal coating protection)				
Heat dissipation	Forced air cooling, variable speed of fan				
Communication interface	USB/RS485/WiFi(Optional)/ Dry node control				