

KEHENG 5KW/20KWH all in one
RESS cabinet



1、 Product introduction

Introduction:

Adopts LFP chemistry battery with safety performance and long life time ,which offers you four capacities to meet your more requirements. It have very good feature As bellow :

- (1) Compact size & Light weight
- (2) High power output & Usable energy system
- (3) Modular design & Expandable system
- (4) Safest battery & Perfect compatibility
- (5) Natural Cooling & Easy Installation



2、 Cell introduction

	Items	Specification description
Basic information	Battery Type	LiFePO4
	Nominal Voltage [V]	3.2
	Nominal Capacity [Ah]	100
	Nominal Battery Energy[kWh]	0.32
	Max Continues Output Current [A]	100
	Maxi Continuous Charge Current[A]	100
	Net Weight [Kg]	2.3
	Working Voltage[V]	2..5~3.65
	Operating Temperature range[°C]	Charging: 0°C ~ 50 °C; Ddischarging: -20~55°C
	Cycle life	4000



3、 Module introduction

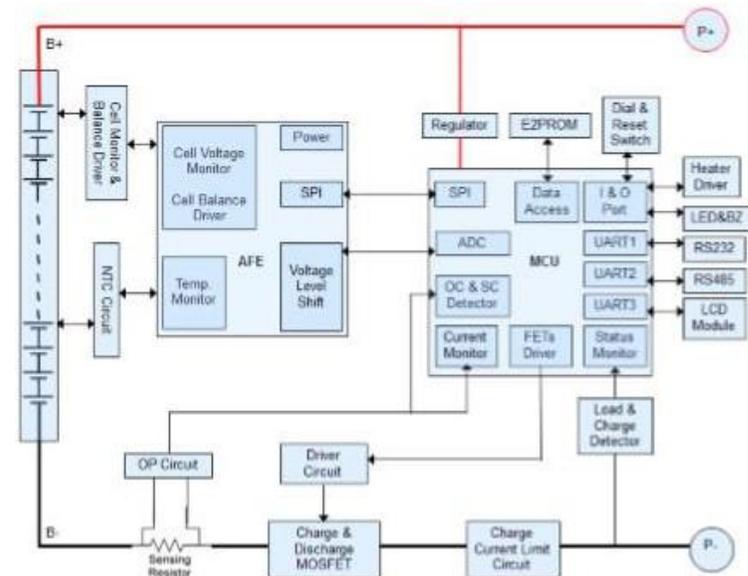
	Items	Specification description
Basic information	Battery Type	LiFePO4
	Nominal Voltage [V]	51.2
	Nominal Capacity [Ah]	100
	Nominal Battery Energy[kWh]	5.1
	Minimum Battery Energy[kWh]	4.9
	Max Output Power[kW]	5.0
	Max Continues Output Current [A]	50
	Maxi Continuous Charge Current[A]	100
	Limiting current[A]	20A, Software startup
	Net Weight System[Kg]	43
	Dimension of Cabinet[mm]	482/19 inches/W×177.5/H×460/D
	Working Voltage[V]	43.2~58.0
	Operating Temperature range[°C]	Charging: 0°C ~ 50°C; discharging: -20~55°C
	Communication	CAN/RS485
	Scalability[kWh]	Up to 70
	Heat Management	Natural Cooling
	Warranty	5 years
	Color	White
	Monitoring & protection	Each module has BMS
	Pros	Can be used both off-grid and hybrid setups, compact size, modular expansion, easy installation
Certification & Safety Standard	CE ISO9001 ISO14001	



4. BMS introduction

The BMS have all functions which are:

1. Over charge detection function
2. Overdischarge detection function
3. Over current detection function
4. Short detection function
5. Temperature detection function
6. Balance function
7. Communicate function
8. Alarm function
9. Total capacity function
10. Storage history function
11. LCD display



5、 Reverse control all-in-one machine introduction



The product is a new type of integrated hybrid solar energy storage inverter control machine integrating solar energy storage & utility charging energy storage and AC sinusoidal wave output. It adopts DSP control and advanced control algorithm, and has the characteristics of high response speed, high reliability and high industrial standard.

Product features

- Digital voltage and current double closed-loop control, advanced SPWM technology, output pure sine wave.
- Municipal power bypass, inverter output two kinds of output mode, with uninterrupted power supply function.
- Solar power, municipal power, solar power, hybrid charging.
- Advanced MPPT technology, efficiency up to 99.9%.
- MPPT voltage range, 60-115V.
- No electricity, batteries, solar energy has a separate function with load.
- With solar energy and AC power activated lithium battery function, support lead-acid battery, lithium battery access.
- LCD design, 3 LED indicator lights, dynamic display system data and status.
- ON/OFF boat switch controls AC output.
- With energy-saving mode function, reduce no-load loss.
- With intelligent adjustable speed fan, high speed heatdissipation, delay system life.
- With a number of protection functions, 360° comprehensive protection.
- With complete short circuit protection, over-voltage protection, overload protection, reverse irrigation protection, insulation impedance protection, etc.

5、 Reverse control all-in-one machine introduction

Items	Specification	Items	Specification	Items	Specification		
Ac Mains Mode		Peak Power	10000VA	PV operating voltage range	60-145Vdc		
Rated Input Voltage	220/230Vac	Output short circuit protection	Breaker	MPPT voltage range	60-115Vdc		
Voltage Range	170-280Vac / $\pm 2\%$			Battery voltage range	40-60Vdc		
Frequency	50Hz/60Hz	By-pass circuit breaker	63A	maximum power output	4200W		
Overload short circuit protection	Breaker	Rated voltage input	48V		Solar maximum charging current	0-80A	
Transfer Efficiency	>95%	Battery voltage range	40-60Vdc	Other Information	Specification authentication CE (EN62109)		
Transition Time	10ms	Ac Mains Charging Mode				EMC Certification level	EN61000.C2
Ac backirrigation protection	Y	Max Charge Current	60A			Operating Temperature range	-15-55
Maximum bypass current	40A	Charging current error	$\pm 5\text{ADC}$	Storage Temperature	-25-60		
Inverter Operating Mode		Charging voltage range	40-58Vdc	Cooling way	Forced air cooling		
Output Voltage Waveform	pure sine wave	Overload short circuit protection	Breaker , AC63A			Communication	USB/RS485/WiFi
output Rating (VA)	5000			Solar Charging Mode		Net weight (kg)	13.5
output Rating (W)	5000	Maximum open circuit voltage	145Vdc				
Rated Output Voltage (Vac)	230Vac	PV Voltage Range	60-145Vdc				
Overload Protection	102% load < 125% $\pm 10\%$, alarm and shut down after 5 minutes						

Items	HES-5.0	HES-10.0	HES-15.0	HES-20.0
Nominal Capacity [Ah]	100	200	300	400
Nominal Voltage [V]	51.2	51.2	51.2	51.2
Working Voltage[V]	40-58	40-58	40-58	40-58
Module QTY	1	2	3	3
Nominal Battery Energy[kWh]	5.1	10.2	15.3	20.4
Max Output Power[kW]	5	5	5	5
Inverter Power[kW]	5	5	5	5
Communication	CAN/RS485			
System Net weight[kg]	Approximately: 105	Approximately: 140	Approximately: 185	Approximately: 230
Mechanical Boundary[mm]	D600×W600×H1200mm			
Operating Temperature range[°C]	Charging: 0° C ~ 50° C; discharging: -20~55°C			
Installation Type	Indoor			

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