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**Shandong Huison Electronics Technology Co.,Ltd.** 



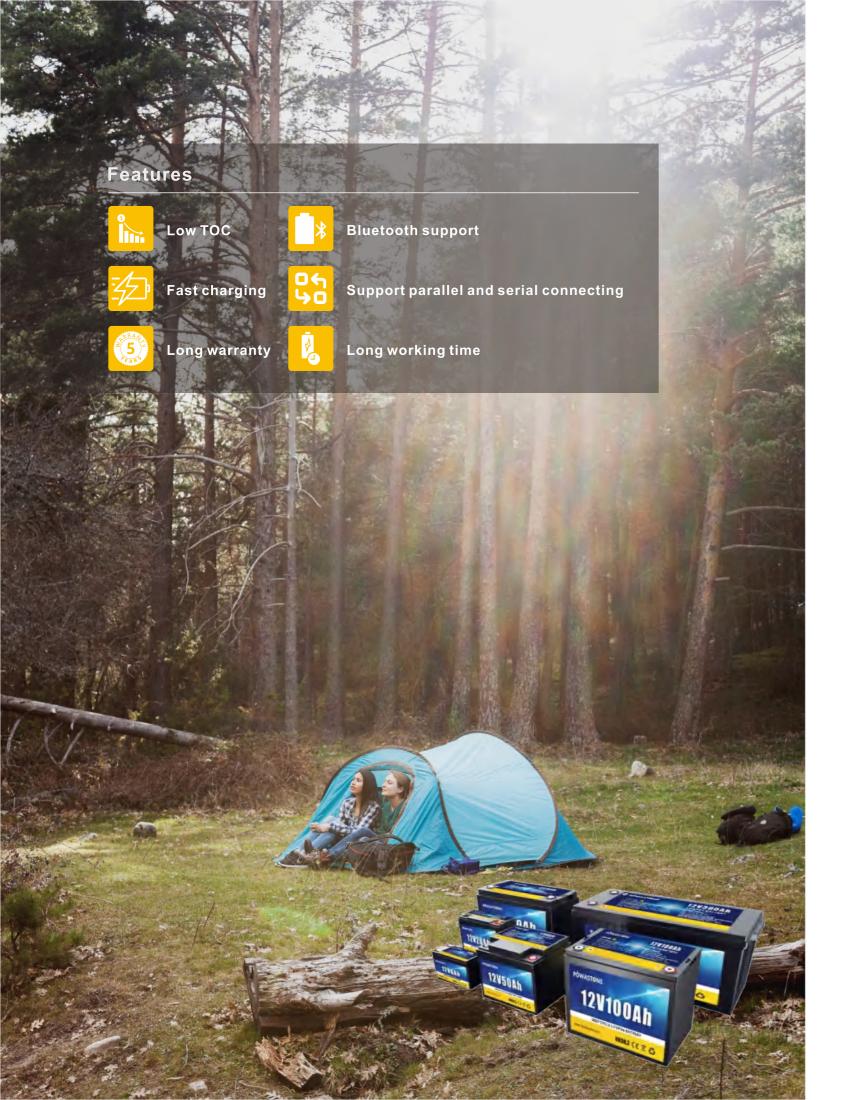




# Portable Power Supply 12V 24V 48V Battery



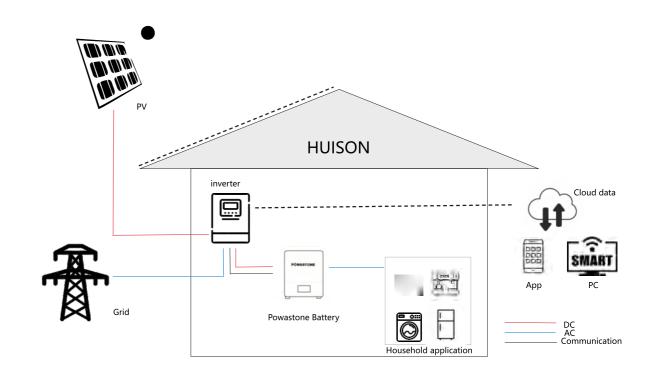
Model	Voltage(V)	Capacity(Ah)	Size(mm)	BMS(A)	Power(W)	Weight	Terminal
PG-12F8	12.8	8	151*65*94	10	120	1.1	F1
PG-12F12	12.8	12	152*99*94	15	180	1.3	F2
PG-12F20	12.8	20	181*77*170	20	240	2.2	M5
PG-12F24	12.8	24	165*126*175	25	300	2.7	M5
PG-12F26	12.8	26	174*126*125	30	360	3.1	M5
PG-12F30	12.8	30	195*133*171	30	360	3.9	M6
PG-12F40	12.8	40	198*166*170	40	480	4.8	M6
PG-12F50	12.8	50	229*138*208	50	600	6.2	M6
PG-12F76	12.8	76	260*168*209	100	1200	8.6	M6
PG-12F100	12.8	100	307*169*208	100	1200	11.2	M8
PG-12F120	12.8	120	330*172*215	100	1200	12.5	M8
PG-12F180	12.8	180	483*170*240	150	1800	19	M8
PG-12F236	12.8	236	532*207*215	200	2400	25	M8
PG-12F250	12.8	250	522*240*218	200	2400	30	M8
PG-12F300	12.8	300	520*269*220	200	2400	35	M8









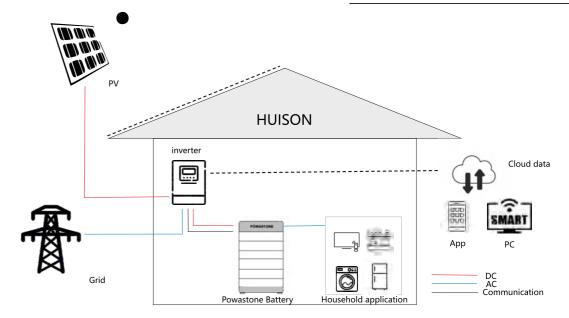


Model	PS-5KWH-W	
Usable Energy	5120Wh	
Max charging current	50A	
Size(L*W*T)	570*400*135mm	
Weight	About 48kg	
IP level	IP54	
Max discharging current	100A	
Discharge temperature	-20-55 ℃	
Communication	RS485/RS232/CAN	
Cycles	>6000 times 80% DoD 25°C 0.5C	
Parallel number	Max 15 modules	
Protocol	SMA, GoodWe, Sol-Ark,Pylontech,etc	
Cooling	Natural cooling	

## POWASTONE



## Home Energy Storage System 48V Stackable Storage System



		Batte	ry parameter		·	
Model	PS-5kwh	PS-10kwh	PS-15kwh	PS-20kwh	PS-25KWh	PS-30KWh
Usable energy	5	10	15	20	25	30
Size L*W*H	570*400*390	570*400*550	570*400*710	570*400*870	570*400*1030	570*400*1190
Rated voltage				51.2		
Rated discharge rate				0.5C		
DoD	90%	90%	90%	90%	90%	90%
Cycle(25°C 80% SOC)			6	000 times		
Communication			RS48	5/CAN/RS232		
Weight(kg)	70	120	170	220	270	320
Certification	CELL:UL1973,U	JL9540,IEC62619	9,IEC62133,CE/M	ODULE:UL1973	,IEC62619,UN38.3	,CE/EMC61000,MS
		Inver	ter parameter			
AC mode		110/120/220/230Vac				
Input voltage range			(90Va	c-140Vac)±2%		
Frequency	50Hz-60Hz (Automatic detection)					
Frequency range	47±0.3Hz~55±0.3Hz(50Hz)/57±0.3Hz~65±0.3Hz(60Hz);					
Efficiency	> 95%					
Conversion time	10ms typical					
AC backflow protection	Yes					
Maximum bypass overload current				63A		
		AC	C Charging			
Max charge current				40A		
Charging voltage range	40-60Vdc					
Circuit breaker	63A					
		P\	/ charging			
Max PV open circuit voltage	500Vdc					
PV working voltage range	120-500Vdc					
MPPT voltage range	120-450Vdc					
Battery voltage range			4	10-60Vdc		
Max output power	5000W					
PV charging current range	0-80A					

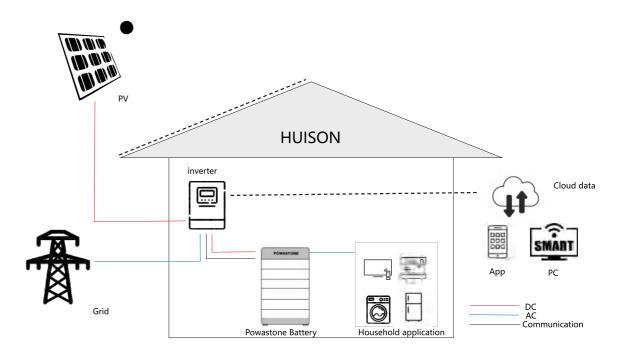
- Module design,
- 12 Support parallel connecting for different energy requirement
- 🔣 Self design BMS, safe and reliable
- 14 Compatible with most brand of inverters
- **15** Built-in inverter
- **16** Remote monitor and update via app





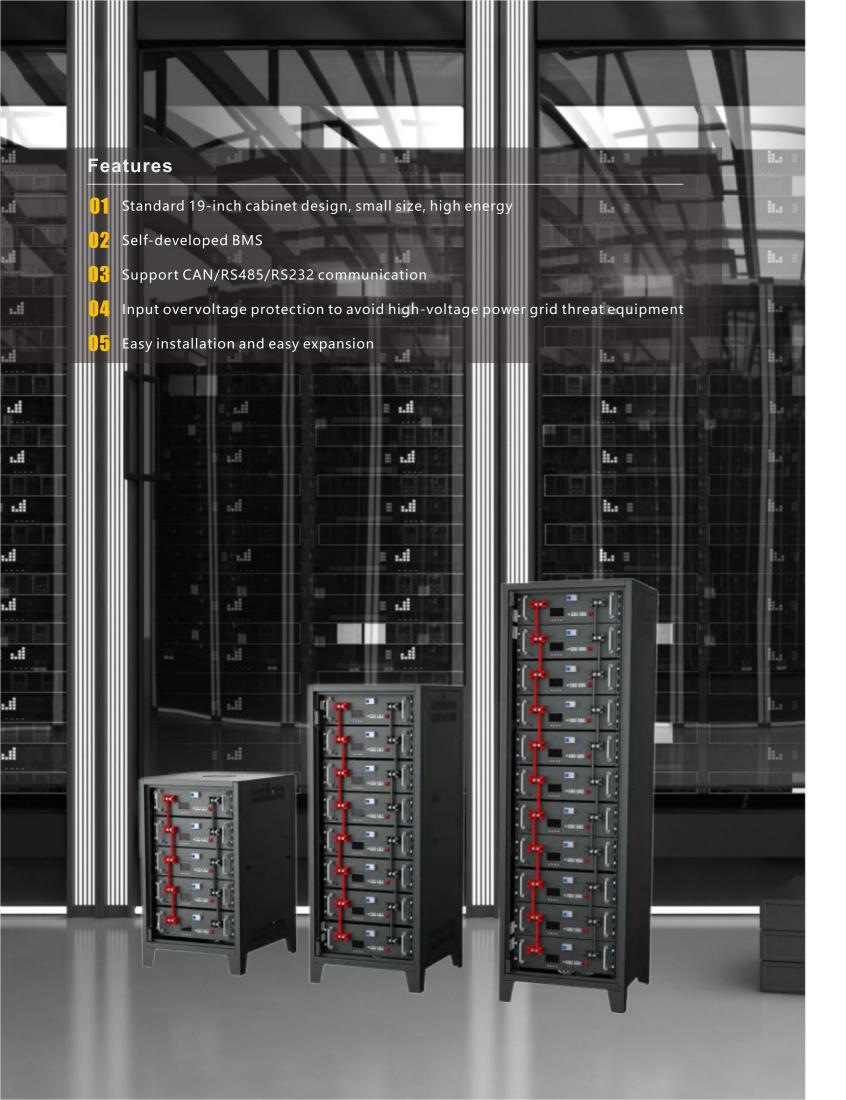


## Home Energy Storage System High Voltage Stackable Storage System



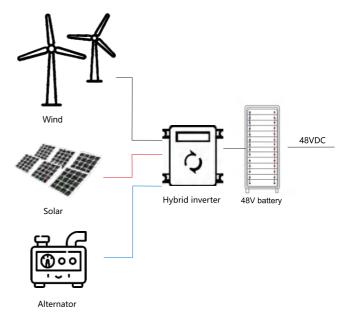
Parameter		PS-30KWh-HV PS-40KWH-H		IV PS-50KWH-HV	
Model		51.2V100Ah	51.2V100Ah	51.2V100Ah	
Battery	Serial connecting qty	6	8	10	
parameter	Total usable energy(KWH)	30	40	50	
	Cycle life(times)	6000	6000	6000	
	Working voltage range(V)	240-350	320-467	400-584	
Battery side	Max charge/discharge current	100/100	100/100	100/100	
	Communication	CAN	CAN	CAN	
	Discharge temperature	-20°C~+55°C			
	Charge temperature	0°C-55°C			
Mechanical parameter	N. 1 (1D)				
	Cooling	Natural cooling			
	IP Level		IP54		
	Size	570*400*1220mm 570*400*1540mm 570*400*186		570*400*1860mm	

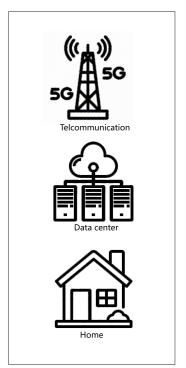




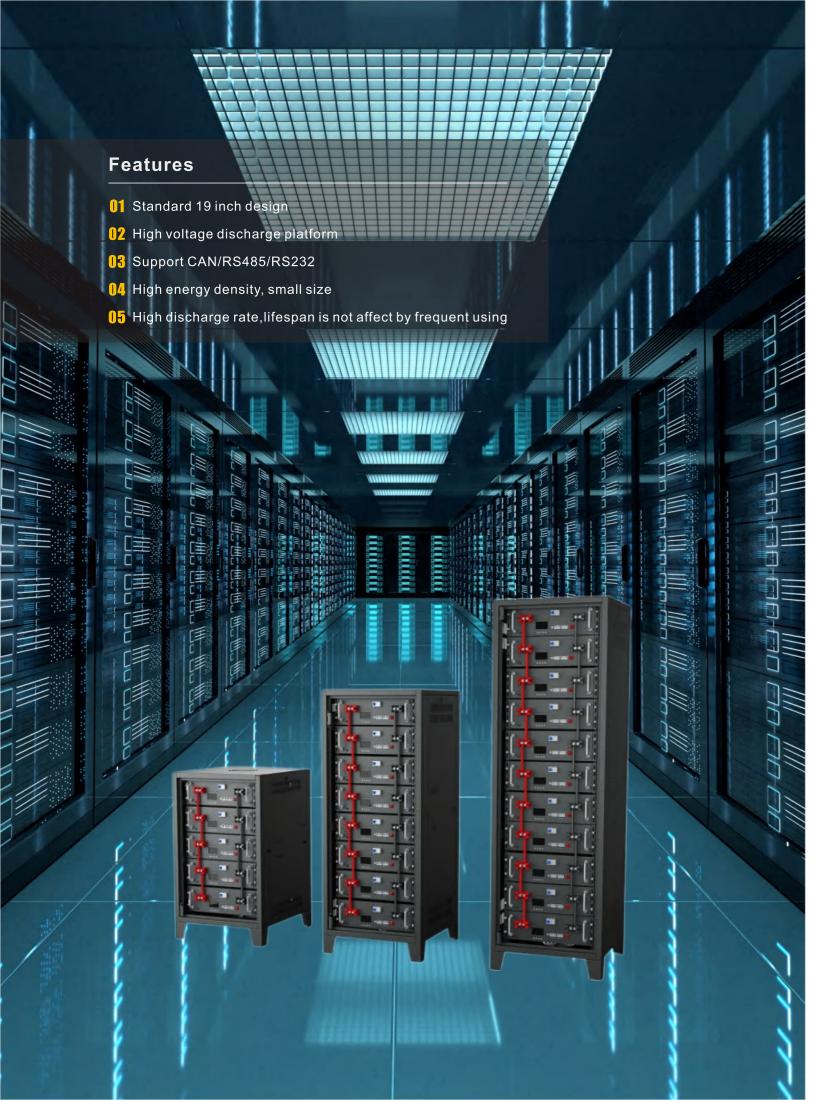
## **PÖWACHARGE**



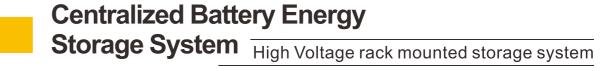


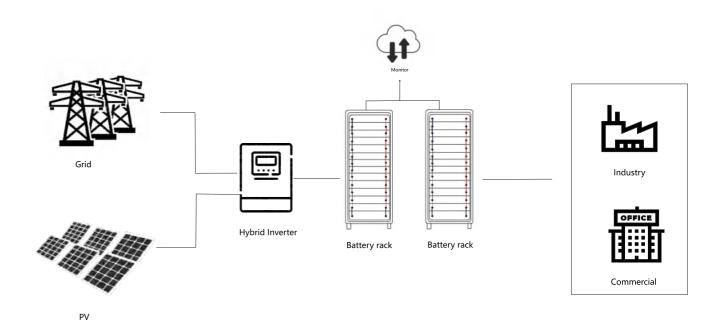


PC-5KWH-LV	PCS-10KWH-LV	
100Ah	200Ah	
5120Wh	10240Wh	
50A	100A	
500*450*133mm	800*450*177mm	
48Kg	78Kg	
IP54	IP54	
100A	100A	
0-55°C	0-55°C	
-20-55°C	-20-55°C	
RS485/RS232/CAN	RS485/RS232/CAN	
≥6000 times	s 80% DoD 25 °C 0.5C	
Support 15 modules in parallel		
Compatible with most brand inverters		
Na	atural cooling	
	100Ah 5120Wh 50A 500*450*133mm 48Kg IP54 100A 0-55°C -20-55°C RS485/RS232/CAN ≥6000 times Support 1 Compatible w	



## **PÖWACHARGE**





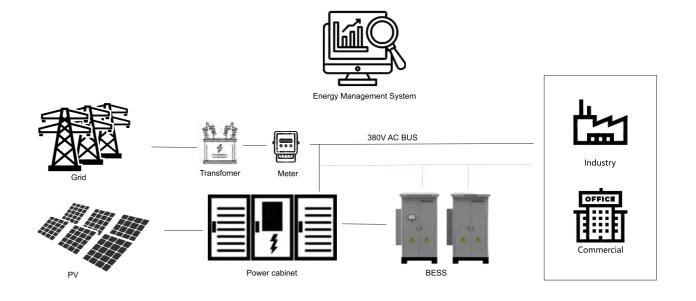
Parameter		PC-30KWh-HV PC-40KWH-HV		PC-50KWh-HV	
Model		51.2V100Ah	51.2V100Ah	51.2V100Ah	
Battery parameter	Total usable energy(KWH)	30	40	50	
	Cycle life	6000 times			
	Working voltage range(V)	240-350	320-467	400-584	
Battery side	Max charge/discharge current	100/100A	100/100A	100/100A	
	Communication	CAN,RS485,RS232			
	Discharge temperature	-20°C∼+55°C			
Mechanical	Charge temperature	0℃-55℃			
parameter	IP Level	IP54			
	System size	570*400*1220mm 570*400*1540mm 570*400		570*400*1860mm	







## Commercial and Industrial BESS PE50/100/150/200

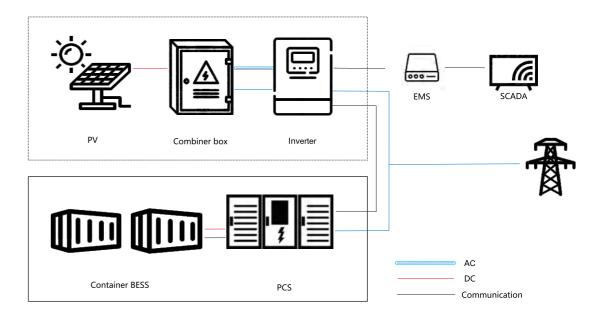


Rated energy	50kWh	100kWh	150kWh	200kWh	
Rated voltage	672V				
Max charge/discharge power	50kW	100kW	150kW	200kW	
Continuous charge/discharge power	0.5C				
Working voltage range		630V	′-756V		
Working temperature		0°C-	-50°C		
Calender life	>10Years				
Communication	CAN2.0B				
Working altitude	Standard 2000m (Max 3000m)				
Operating temperature range	-30°C - +50°C(>45°C Frequency reduction)				
Humidity	0%-95% no condensing				
IP level	IP54				
Size W*H*D		1300×2400×1000mm			
Cooling		Forced fan			
Mounting	Indoor/Outdoor				

### **P**ÓWAGR**I**D



## **Containerized Energy** Storage System Power-side Storage/Grid-side Storage

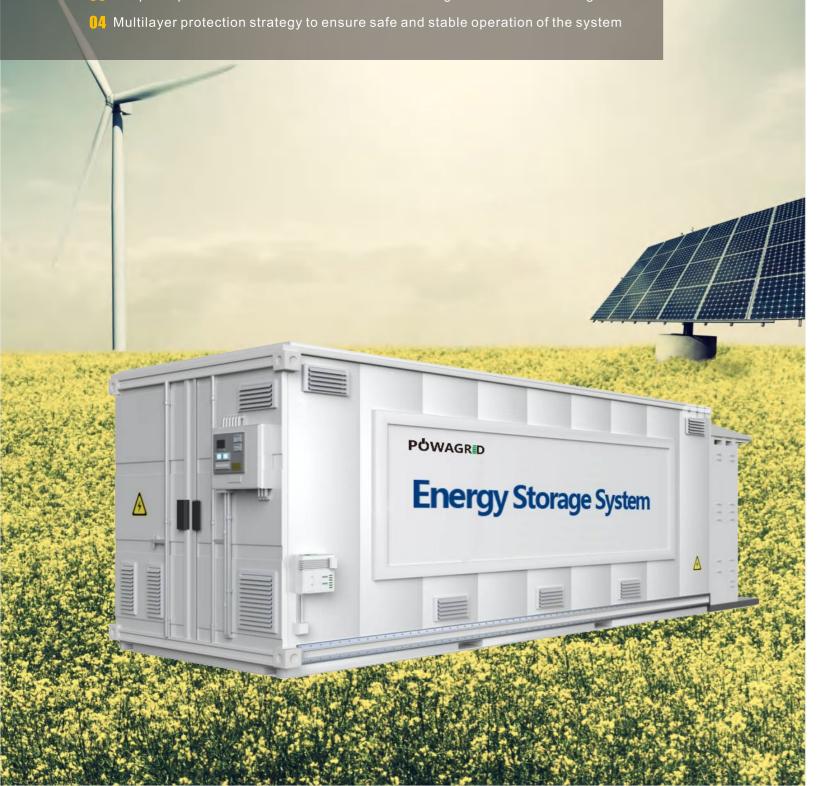


Model	20 foot (Include PCS)	40 foot (Include PCS)				
	DC side					
Rated voltage	768V	768V				
Rated capacity	1MWh	2MWh				
	AC side					
Rated power	500kW	1000kW				
Rated current/Max current	130A/150A	260A/280A				
Rated voltage	380V(3 phase)	380V(3 phase)				
	Basic parameter					
IP level IP54						
Temperature system	Industrial air conditioning					
Fire protection system	Gas Fire Extinguishing System					
Calender life	>10 years					
Working altitude	<2000m					
Communication	RS485,Ethernet,4G					

In addition, we provide overall solutions for distributed energy systems, microgrid systems, and smart energy

#### Features

- Integrated battery cluster, BMS, PCS, and auxiliary control system
- Occupy a small area, Easy to install and transport, short construction period
- Representation of the special and harsh environments such as high altitude and cold regions





## **Equipment Support** Smart BMS

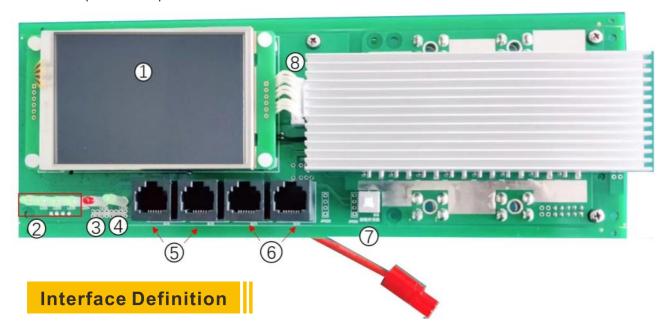
#### About smart BMS

Huison Electronics Lithium Battery Management System is designed for products such as home energy storage, data center backup power supply, portable power supply, etc. It collects and protects real-time information on lithium battery voltage, current, temperature, etc. The system also has functions such as active charging and discharging balance, battery SOC, CANBUS/RS485, etc.

#### **Features**

- Touch display setting
- Mul-channels temperature sensors(≤1°C)
- Highly integrated analog front end
- Active charge and discharge balancing
- SOC estimation
- RS485/CANBUS communication
- Short circuit protection
- Multiple wake-up methods

- Current limiting
- F High voltage accuracy (≤5mV)
- Figh current accuracy (≤2%@FS)
- Adjustable parameter settings
- Data record
- Serial port upgrade function
- Low-power consumption
- SOH estimation



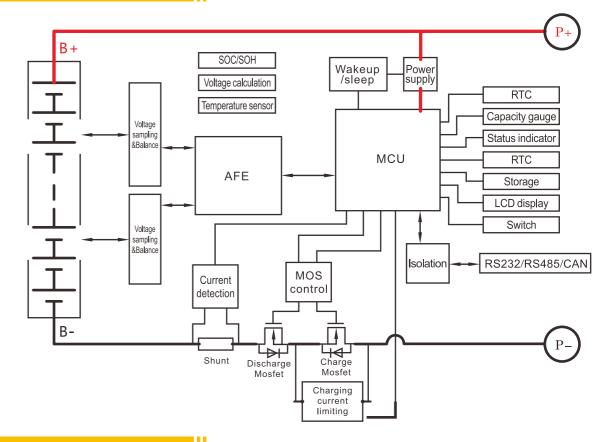
1 Touch display

(2) Indicator

- 3 Alarm 4 Run
- ⑤ Can port
- Switch
- **6** Rs485 port
- 8 Display module interface



#### Topology diagram



#### Technical parameter

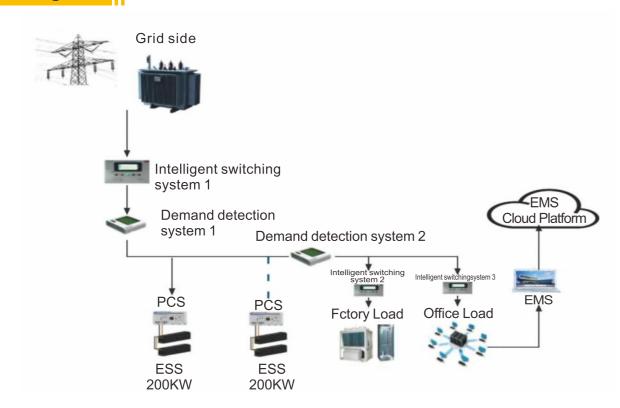
project	Item	Standard
Battery	Chemistry	LiFePo4
	Layout	16S
	Rated voltage	51.2V
	Charge/discharge port	Same port
Work method	Battery temperature sensor	4pcs
Work method	MOS temperature sensor	2pcs
	Max charge current(incl.Current limiting)	20A
	Max discharge current	150A
	Dry contact+heating current	Optional
	Continuous charge/discharge current	<100A
Recommend working condition	Allowed discharge current	150A
	Working temperature	-15~65℃
Resistance	PCM resistance	«5mΩ
PCM size(2U)	L*W*H	280*80*30mm

17/18 Integrated Energy Storage System



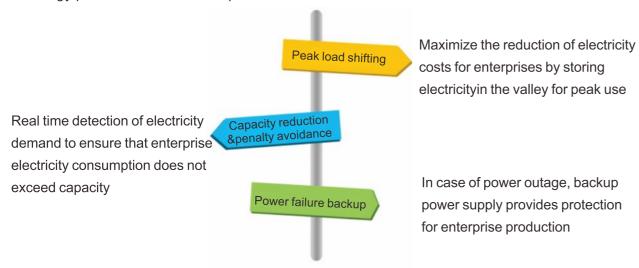
# Smart microgrid energy management and control system

#### Diagram



#### Function

The smart energy system is a smart energy management and control system that combines "energy storage" and "grid electricity", providing users with efficient and economical new energy power solutions. The specific functions are as follows:





#### System Explanation

System name	Function Introduction
Intelligent switching system (ISS)	After receiving the switching command, "Intelligent cut-off system 1" switches the mains power, and after switching, "ESS" Put into work, "ISS 2" and "3" can be used according to user load needs Intelligent switching of progression line
Demand monitoring system(DMS)	The DMS 1 monitors the output side demand of the transformer in real-time, and when the demand side electricity demand reaches the capacity upper limit. The system automatically starts PCS to reduce the load side capacity, real-time monitoring of load side demand by "DMS 2", when the load side electricity consumption is less than the capacity upper limit will automatically shut down PCS.
200KW BESS	Discharge: When the battery is in a charged state and the system is powered on by 24V, If self check passes, the total negative and precharge relays, close the electrical appliances are pre charged; then close the main positive circuit relay and disconnect the pre charging relay. After the system is ready for discharge, it can be discharged externally; Charging: When the battery is low and needs to be charged, the BMS sends a charging request to the PCS after the self check and communication completed the PCS charges the battery. The charging and discharging time can be set on the PCS according to the actual peak and valley periods of the local power grid.
Energy management system(EMS)	The "DMS" data is uploaded to the "EMS". The "EMS" performs real-time calculations and analysis on the "DMS" data. Based on the results, commands are issued and controlled for the "ISS" and "ESS". Functions such as "peak shaving and valley filling", "capacity reduction and penalty avoidance", and "power outage backup" based on user actual needs. The 'EMS' simultaneously uploads data to the cloud server for remote monitoring and management on the user side. Users can view data statistics and analysis in real-time through mobile app and PC. At the same time, system faults will be notified to users through multiple channels such as "mobile app", "PC", and "SMS".

19/20 Integrated Energy Storage System