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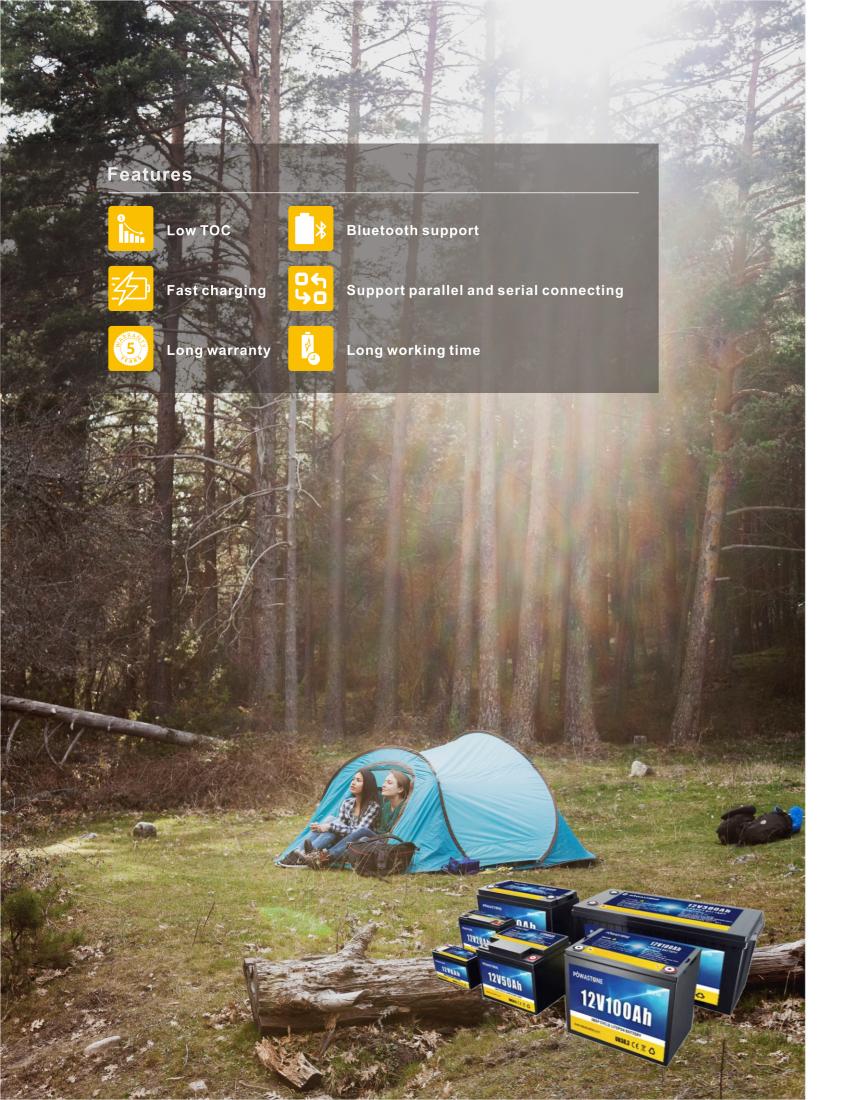




Portable Power Supply 12V 24V 48V Battery



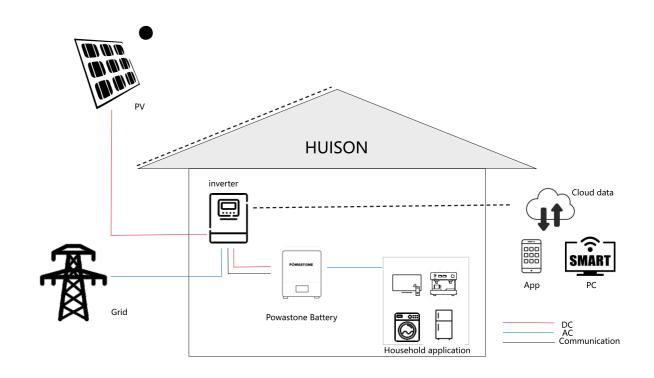
| Model | Voltage(V) | Capacity(Ah) | Size(mm) | BMS(A) | Power(W) | Weight | Terminal |
|-----------|------------|--------------|-------------|--------|----------|--------|----------|
| PG-12F8 | 12.8 | 8 | 151*65*94 | 10 | 120 | 1.1 | F1 |
| PG-12F12 | 12.8 | 12 | 152*99*94 | 15 | 180 | 1.3 | F2 |
| 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 |









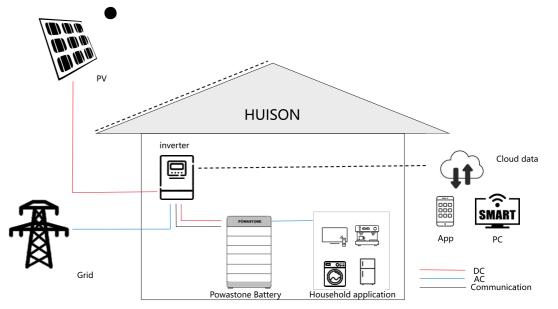


| Model | PS-5KWH-W | |
|-------------------------|------------------------------------|--|
| Usable Energy | 5120Wh | |
| Max charging current | 50A | |
| Size(L*W*T) | 570*400*135mm | |
| Weight | About 48kg | |
| IP level | IP54 | |
| Max discharging current | 100A | |
| Discharge temperature | -20-55 ℃ | |
| 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 | |

PÖWASTØNE



Home Energy Storage System 48V Stackable Storage System



| | | Batte | ery 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/N | IODULE:UL1973 | ,IEC62619,UN38.3 | ,CE/EMC61000,MSDS |
| | | Inver | ter parameter | | | |
| AC mode | | | 110/12 | 20/220/230Vac | | |
| Input voltage range | | (90Vac-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 | | | | | |
| | | A | C Charging | | | |
| Max charge current | | 40A | | | | |
| Charging voltage range | 40-60Vdc | | | | | |
| Circuit breaker | 63A | | | | | |
| | | P | V charging | | | |
| Max PV open circuit voltage | 500Vdc | | | | | |
| PV working voltage range | 120-500Vdc | | | | | |
| MPPT voltage range | 120-450Vdc | | | | | |
| Battery voltage range | 40-60Vdc | | | | | |
| Max output power | 5000W | | | | | |
| PV charging current range | 0-80A | | | | | |

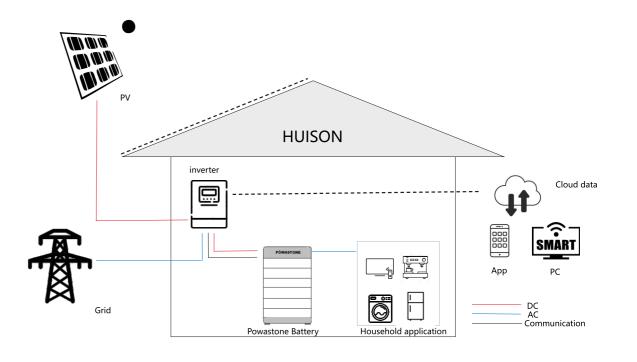
- Module design,
- 12 Support parallel connecting for different energy requirement
- 🔣 Self design BMS, safe and reliable
- 14 Compatible with most brand of inverters
- **15** Built-in inverter
- **16** Remote monitor and update via app





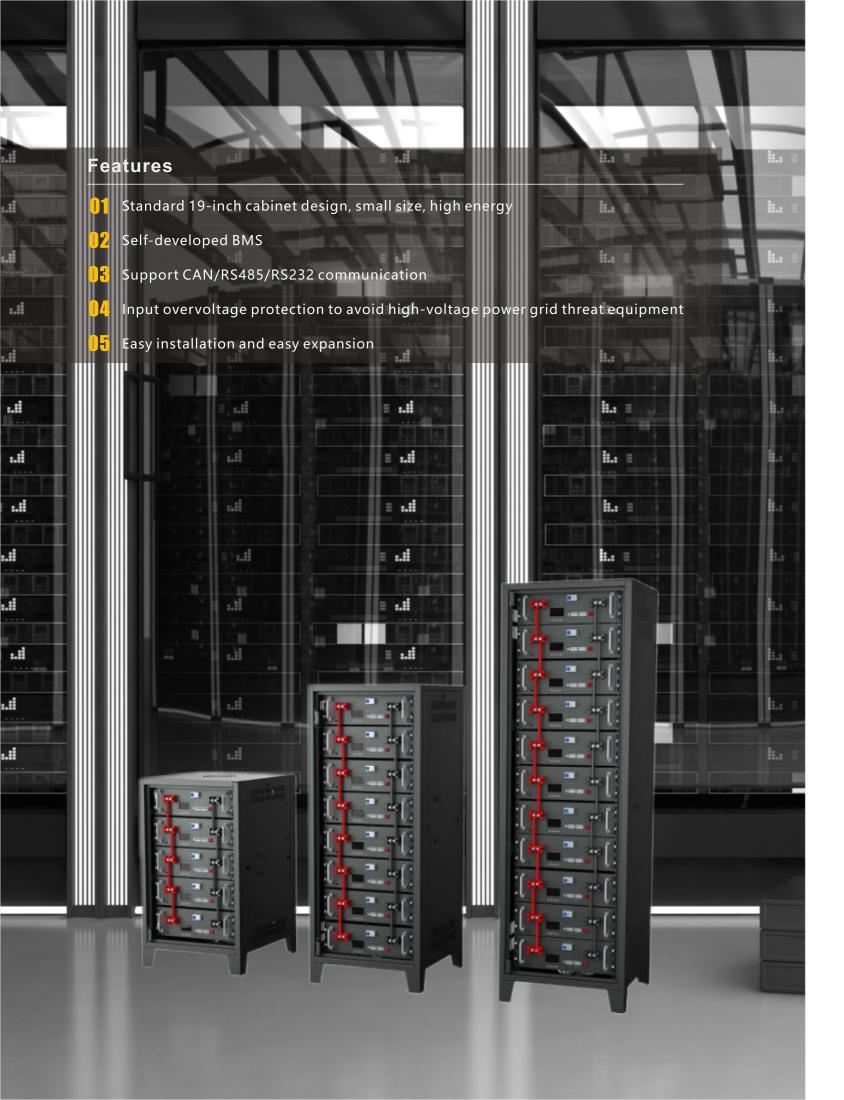


Home Energy Storage System High Voltage Stackable Storage System



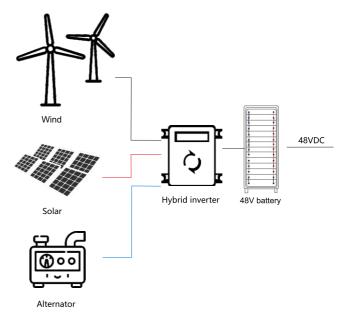
| Parameter | | PS-30KWh-HV PS-40KWH-HV PS | | PS-50KWH-HV | |
|----------------------|------------------------------|---|-------------|----------------|--|
| | Model | 51.2V100Ah | 51.2V100Ah | 51.2V100Ah | |
| Battery | Serial connecting qty | 6 | 8 | 10 | |
| parameter | Total usable energy(KWH) | 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℃-55℃ | | | |
| Mechanical parameter | Noise(dB) < 40 | | | | |
| | Cooling | Natural cooling | | | |
| | IP Level | IP54 | | | |
| | Size | 570*400*1220mm 570*400*1540mm 570*400*1860r | | 570*400*1860mm | |

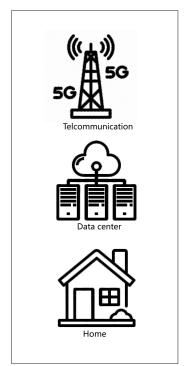




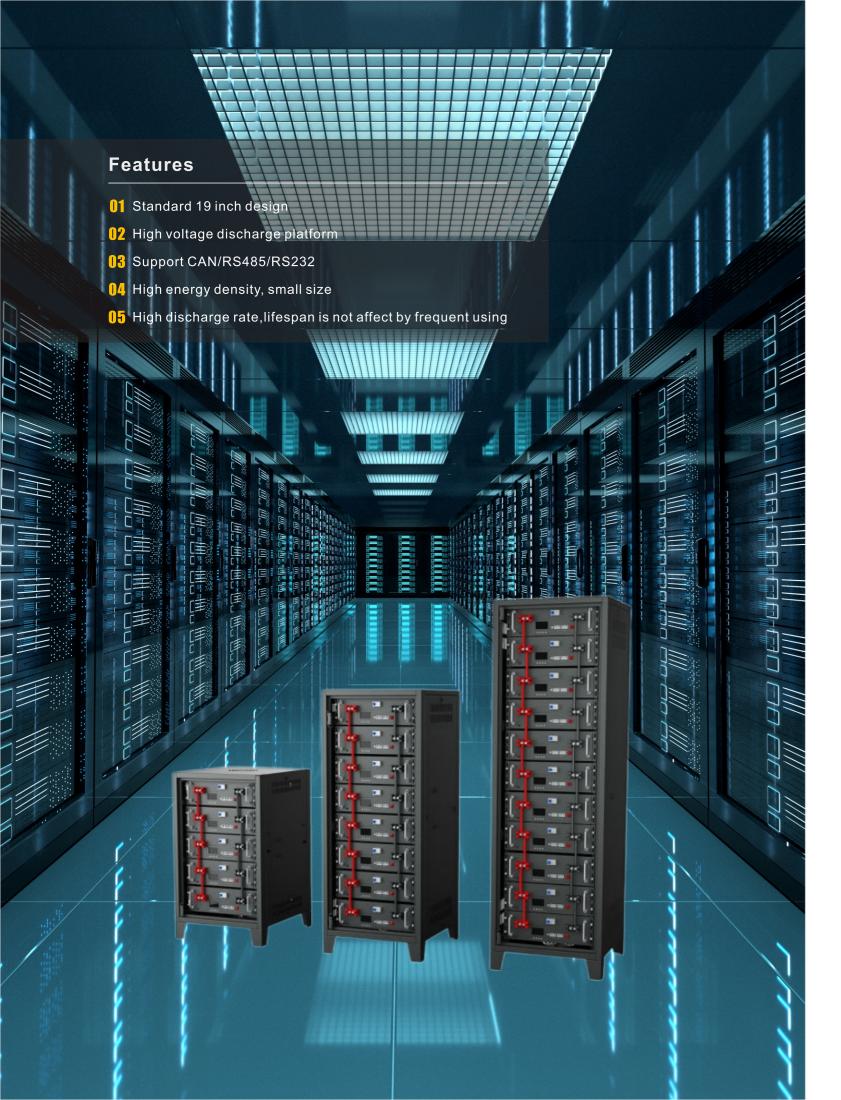
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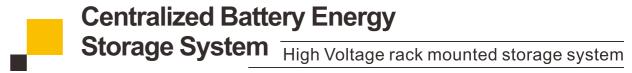


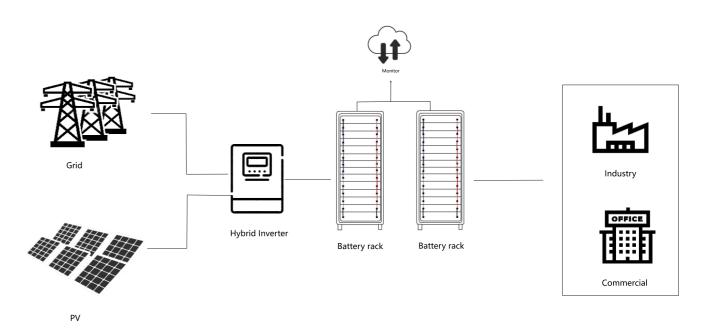


| Protocol Cooling-down method | | vith most brand inverters atural cooling |
|-------------------------------|-----------------|--|
| Parallel quantity | | 5 modules in parallel |
| Cycle life ≥6000 tim | | s 80% DoD 25 ℃ 0.5C |
| Communication mode | RS485/RS232/CAN | RS485/RS232/CAN |
| Discharging temperature | -20-55°C | -20-55℃ |
| Charging temperature | 0-55℃ | 0-55°C |
| Maximum discharge current | 100A | 100A |
| IP levels | IP54 | IP54 |
| Weight(kg) | 48Kg | 78Kg |
| Size (L*W*H) | 500*450*133mm | 800*450*177mm |
| Maximum charge current | 50A | 100A |
| Total energy | 5120Wh | 10240Wh |
| Rated capacity | 100Ah | 200Ah |
| Model | PC-5KWH-LV | PCS-10KWH-LV |



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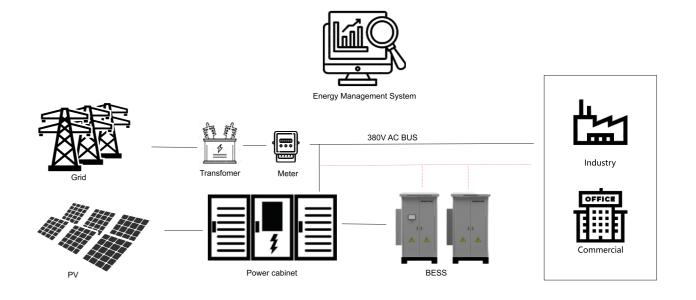
| Parameter | | PC-30KWh-HV PC-40KWH-HV | | PC-50KWh-HV | |
|-------------------|------------------------------|---|------------|----------------|--|
| Model | | 51.2V100Ah | 51.2V100Ah | 51.2V100Ah | |
| Battery parameter | Total usable energy(KWH) | 30 | 40 | 50 | |
| | Cycle life | 6000 times | | | |
| | 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 | erature -20°C~+55°C | | | |
| Mechanical | Charge temperature | 0℃-55℃ | | | |
| parameter | IP Level | IP54 | | | |
| | System size | 570*400*1220mm 570*400*1540mm 570*400*1860m | | 570*400*1860mm | |







Commercial and Industrial BESS PE50/100/150/200

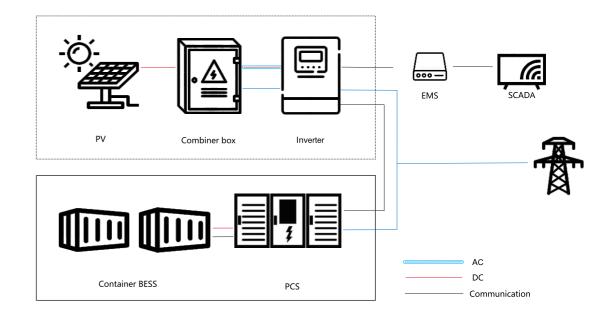


| Rated energy | 50kWh | 100kWh | 150kWh | 200kWh | |
|-----------------------------------|------------------|----------------------------|---------------------|--------|--|
| Rated voltage | 672V | | | | |
| Max charge/discharge power | 50kW | 100kW | 150kW | 200kW | |
| Continuous charge/discharge power | 0.5C | | | | |
| Working voltage range | | 630V | -756V | | |
| Working temperature | | 0°C- | -50°C | | |
| Calender life | | >10 | Years | | |
| Communication | CAN2.0B | | | | |
| Working altitude | | Standard 2000m (Max 3000m) | | | |
| Operating temperature range | | −30°C - +50°C(>45°C | Frequency reduction | ۱) | |
| Humidity | | 0%-95% nc | condensing | | |
| IP level | | IF | 254 | | |
| Size W*H*D | 1300×2400×1000mm | | | | |
| Cooling | | Forced fan | | | |
| Mounting | | Indoor/ | Outdoor | | |

PÖWAGRID



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

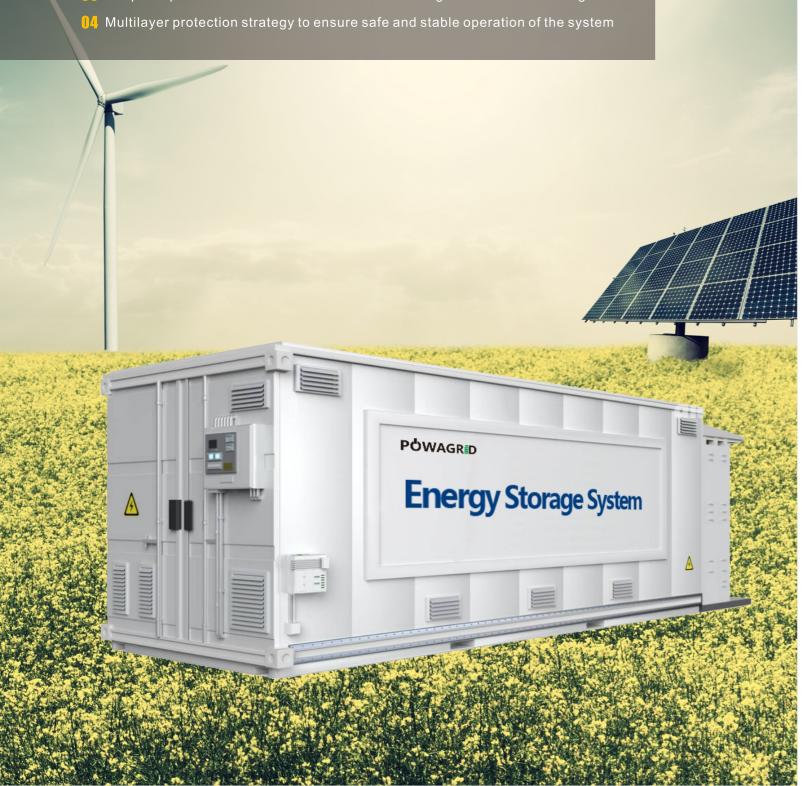


| Model | 20 foot (Include PCS) | 40 foot (Include PCS) | |
|---------------------------|-------------------------------|-----------------------|--|
| | DC side | | |
| Rated voltage | 768V | 768V | |
| Rated capacity | 1MWh | 2MWh | |
| ' | AC side | 1 | |
| Rated power | 500kW | 1000kW | |
| Rated current/Max current | 130A/150A | 260A/280A | |
| Rated voltage | 380V(3 phase) | 380V(3 phase) | |
| , | Basic parameter | | |
| IP level | IF | 254 | |
| 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

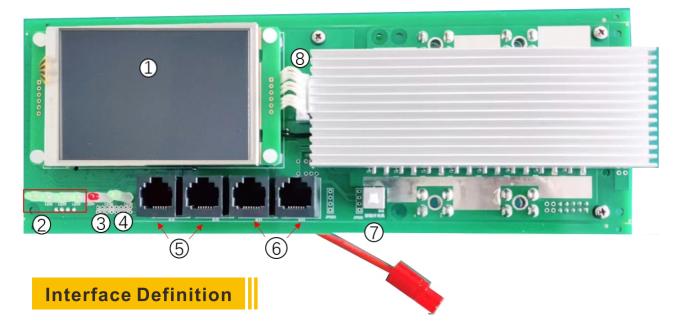
About smart BMS

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

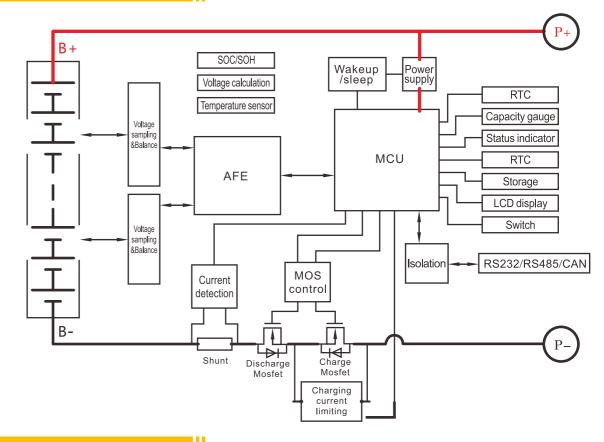


- 1 Touch display
- 3 Alarm
- ⑤ Can port
- Switch

- (2) Indicator
- 4 Run
- **6** Rs485 port
- 8 Display module interface

POWASTONE

Topology diagram



Technical parameter

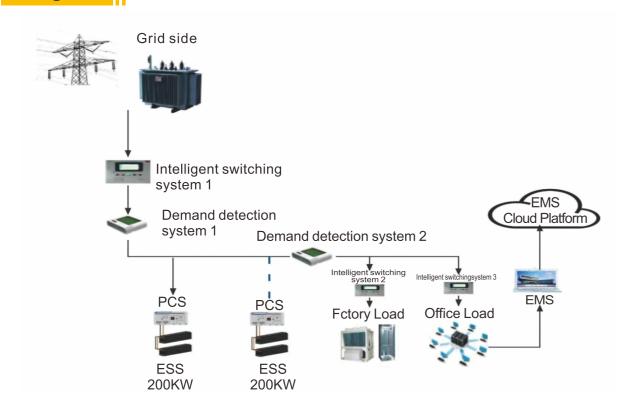
| project | Item | Standard |
|-----------------------------|---|-------------|
| Battery | Chemistry | LiFePo4 |
| | Layout | 16S |
| | Rated voltage | 51.2V |
| | Charge/discharge port | Same port |
| Work method | Battery temperature sensor | 4pcs |
| Work method | MOS temperature sensor | 2pcs |
| | 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



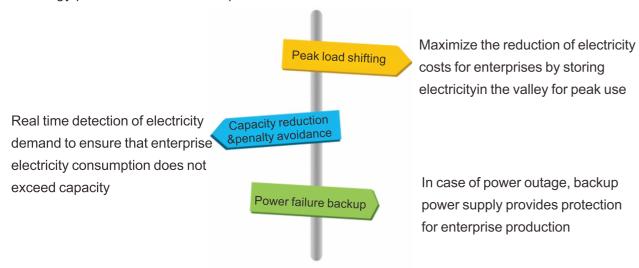
Smart microgrid energy management and control system

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