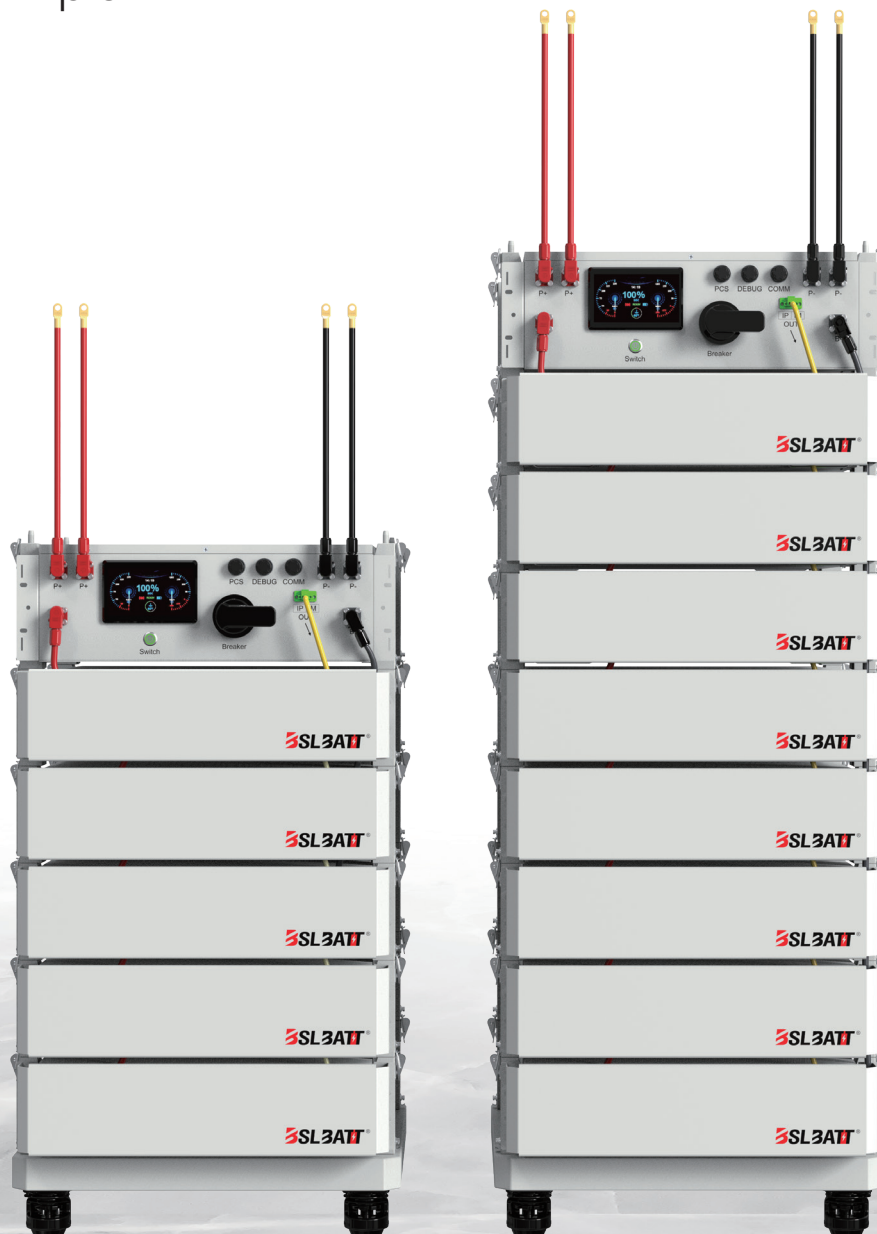


ESS-GRID HV PACK

7.8kWh / Per Module | 115.2V - 1000V

More flexible HV battery pack solutions for commercial and industrial energy storage systems that are safe, smart and simple.



Technical Specification

| Model | HV PACK 5 | HV PACK 6 | HV PACK 7 | HV PACK 8 | HV PACK 9 | HV PACK 10 |
|--------------------------------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|
| Battery Module | 57.6V 135Ah 7.776kWh | | | | | |
| Rated Voltage(V) | 288.0 | 345.6 | 403.2 | 460.8 | 518.4 | 576.0 |
| Rated Capacity(Ah) | 135 | 135 | 135 | 135 | 135 | 135 |
| Cell Model(LFP-3.2V)(Ah) | 135 | 135 | 135 | 135 | 135 | 135 |
| System Configuration | 90S1P | 108S1P | 126S1P | 144S1P | 162S1P | 180S1P |
| Battery Single Box Number | 5 pack+ 1 control box | 6 pack+ 1 control box | 7 pack+ 1 control box | 8 pack+ 1 control box | 9 pack+ 1 control box | 10 pack+ 1 control box |
| Rate Power(kWh) | 38.88 | 46.66 | 54.43 | 62.21 | 69.98 | 77.76 |
| Charge Cut-off Voltage(V) | 319.5 | 383.4 | 447.3 | 511.2 | 575.1 | 639.0 |
| Discharge Cut-off Voltage(V) | 256.5 | 307.8 | 359.1 | 410.4 | 461.7 | 513.0 |
| Recommended Current(A) | 68 | 68 | 68 | 68 | 68 | 68 |
| Maximum Charging Current(A) | 135 | 135 | 135 | 135 | 135 | 135 |
| Maximum Discharging Current(A) | 135 | 135 | 135 | 135 | 135 | 135 |
| Dimension(L*W*H)(MM) | 620*726*1110 | 620*726*1260 | 620*726*1410 | 620*726*1560 | 620*726*1560 | 620*726*1860 |
| Host Software Protocol | CANBUS (Baud rate @250Kb/s) | | | | | |
| Operation Temperature Range | Charge:0~55°C | | | | | |
| | Discharge: -20~55°C | | | | | |
| Cycle Life(25°C) | 6000 cycles @90% DOD | | | | | |
| Protection Level | IP20 | | | | | |
| Storage Temperature | -10°C~40°C | | | | | |
| Storage Humidity | 10%RH ~90%RH | | | | | |
| Internal Impedance | ≤1Ω | | | | | |
| Warranty | 10 years | | | | | |
| Transportation | UN38.3 | | | | | |
| Battery Life | ≥15 years | | | | | |

High Voltage Box Parameters

| Model | |
|-----------------------------------|--|
| Controller Working Voltage | 80-1000 VDC |
| System Operation Voltage | 102.6-639.0 VDC |
| Max. Continuous Charge Current | 135A |
| Max. Continuous Discharge Current | 135A |
| Self-consumption | <18W |
| Dimension (W*D*H, MM) | 645*580*180 |
| Weight | 16kg |
| Communication Protocol | CANBUS (Baud rate @500Kb/s or @250Kb/s)/Modbus RTU(@9600b/s) |
| Operation Life (Year) | 15+ |
| Operation Temperature°C | -20-55 °C |
| Ingress Protection | IP20 |



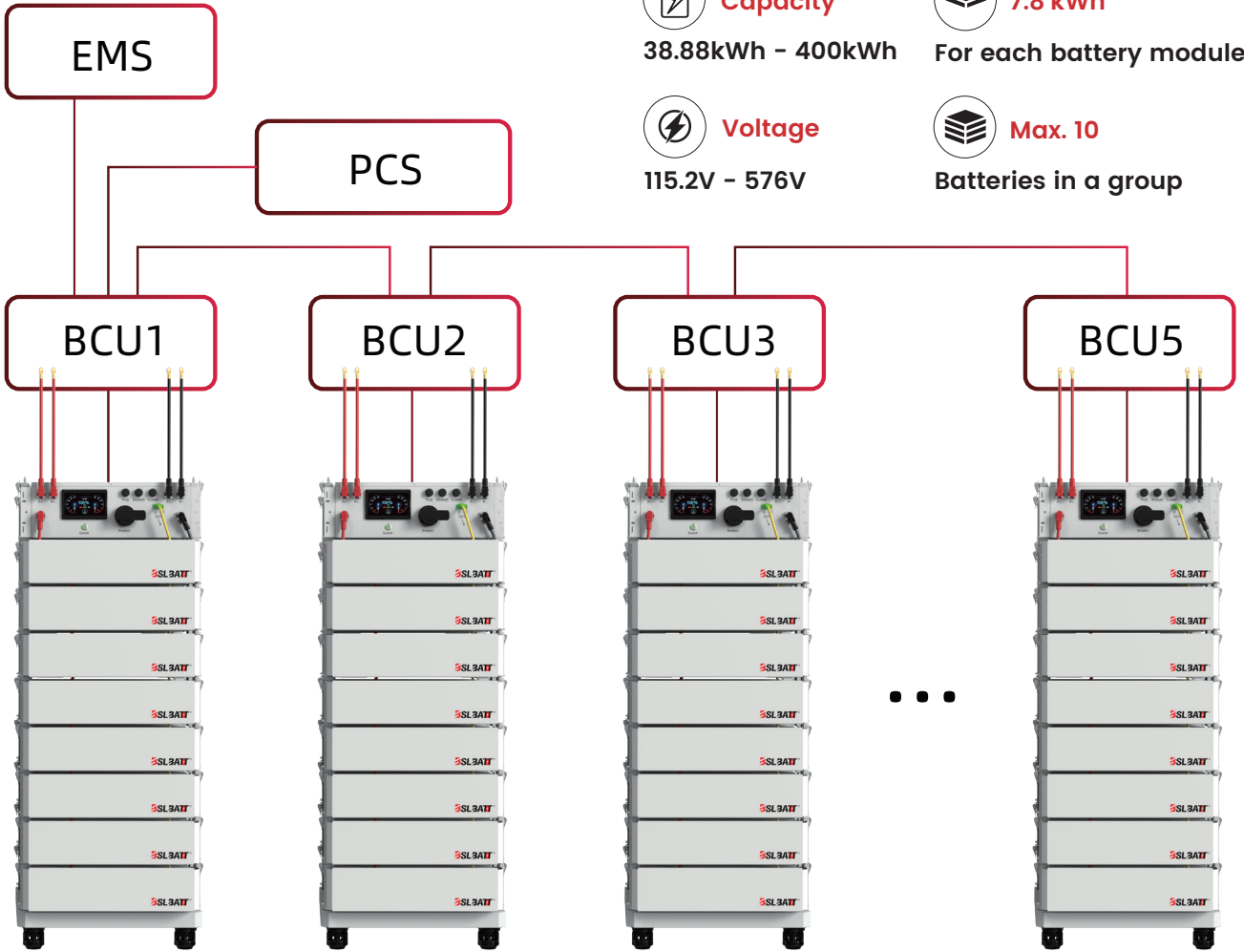
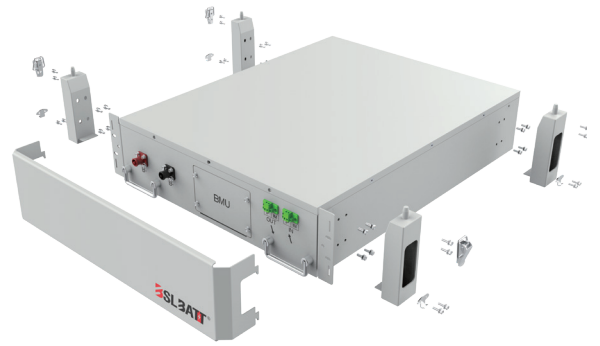
Easy Snap Design



Integrated WIFI/Bluetooth

Feel Free To Expand As Needed.

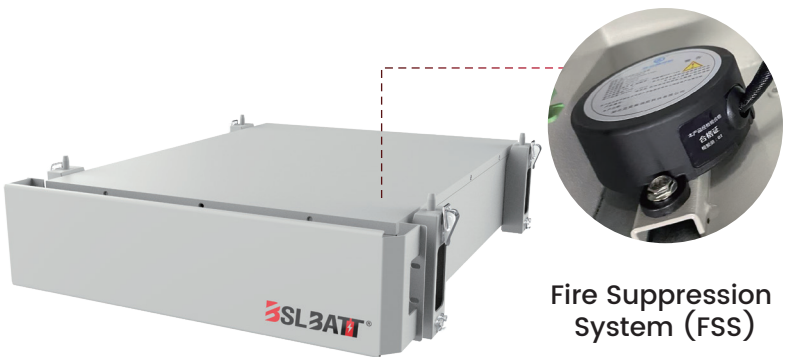
Simple, flexible, cost-saving battery rack.



- Capacity**
38.88kWh - 400kWh
- 7.8 kWh**
For each battery module
- Voltage**
115.2V - 576V
- Max. 10**
Batteries in a group

1 battery group 2 battery group 3 battery group ... Maximum 5 group

COMPATIBLE INVERTERS



Fire Suppression System (FSS)

BSLBATT HV PACK

can be expanded according to your needs,
and the simple, flexible combination
saves you installation costs.



1 Control box connect B+ to battery pack B+ using cable 35m²

2 Control box BCOM connects to the BCOM IN battery pack using a 0.5m² 180mm communication cable.

3 2* 25m² connectors for the P+ and P- of the control box

4 B+ and B- are connected between battery packs using cable 35m²

5 The BCOM IN and BCOM OUT connections between battery packs use the 0.5m² 180mm communication cable.



Commercial & Industrial (C&I)

- ✓ Agribusiness/Farming
- ✓ Oil & Gas
- ✓ Emergency Services
- ✓ Government Projects
- ✓ Local/Rural Businesses
- ✓ Manufacturing Plants
- ✓ Telecom/Data
- ✓ Infrastructure
- ✓ School Power Backup
- ✓ Rail/Transport



Applications

- ✓ Peak Shaving
- ✓ Power Back-up
- ✓ Demand Response
- ✓ Expanded PV self-consumption
- ✓ Off-grid/On-grid systems

Higher Energy Density

- Each module utilizes a capacity of 7.7kWh, which is a higher energy density than a 5kWh battery of the same size.

Compact Size Design

- Each module is designed with a 3U rack battery to meet demanding space requirements.

Higher Conversion Efficiency

- Compared to LV systems, HV systems can reduce energy loss by lowering the current value with less energy loss.

Fast Charging And Discharging

- The HV Pack is capable of charging and discharging up to 1C, making it ideal for commercial and industrial loads.

High Security

- Using LiFePO₄ as the storage core and multi-level control for expansion ensures the safety of each battery function.



Facebook



LinkedIn



Tiktok



Instagram



Youtube