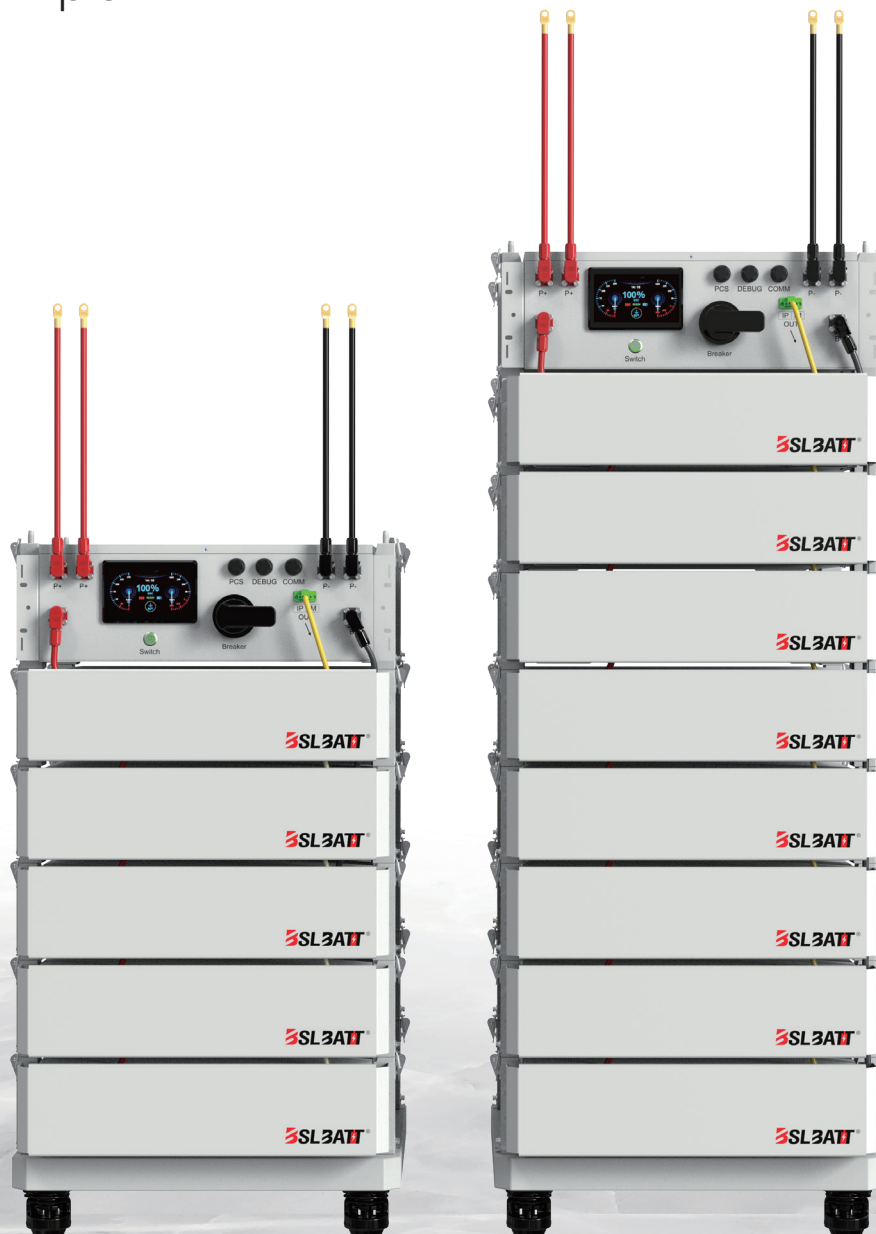


# ESS-GRID HV PACK

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



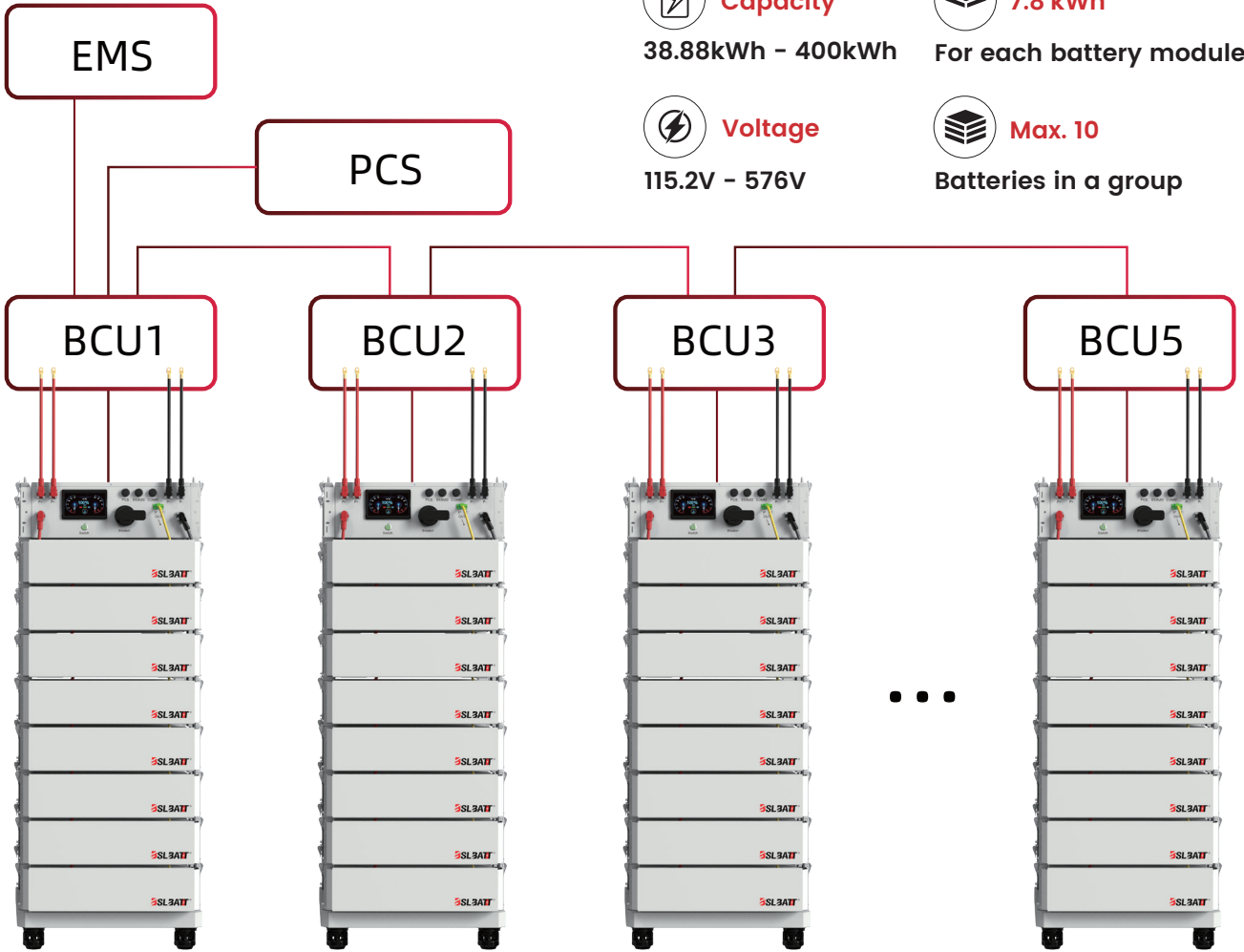
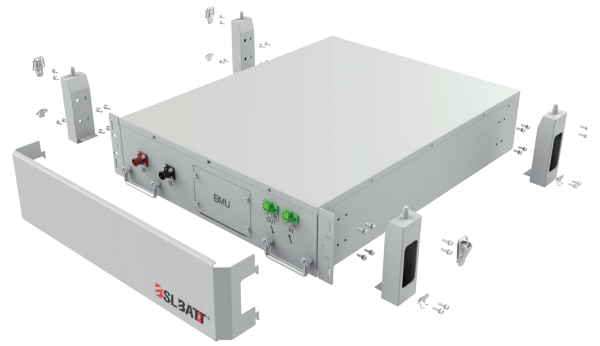
Easy Snap  
Design



Integrated  
WIFI/Bluetooth

# Feel Free To Expand As Needed.

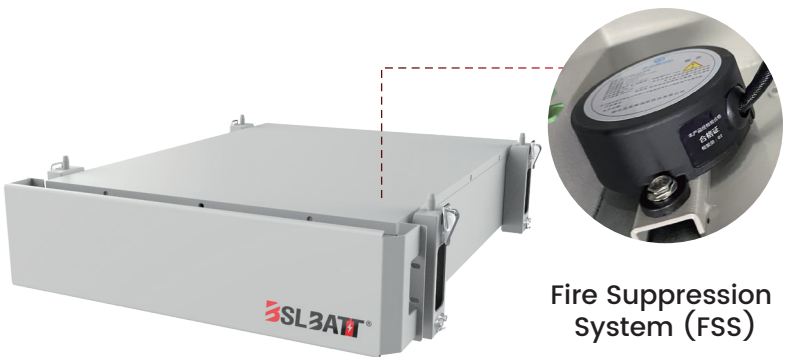
Simple, flexible, cost-saving battery rack.



- 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 35m<sup>2</sup>

2 Control box BCOM connects to the BCOM IN battery pack using a 0.5m<sup>2</sup> 180mm communication cable.

3 2\* 25m<sup>2</sup> connectors for the P+ and P- of the control box

4 B+ and B- are connected between battery packs using cable 35m<sup>2</sup>

5 The BCOM IN and BCOM OUT connections between battery packs use the 0.5m<sup>2</sup> 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 LiFePO<sub>4</sub> as the storage core and multi-level control for expansion ensures the safety of each battery function.



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