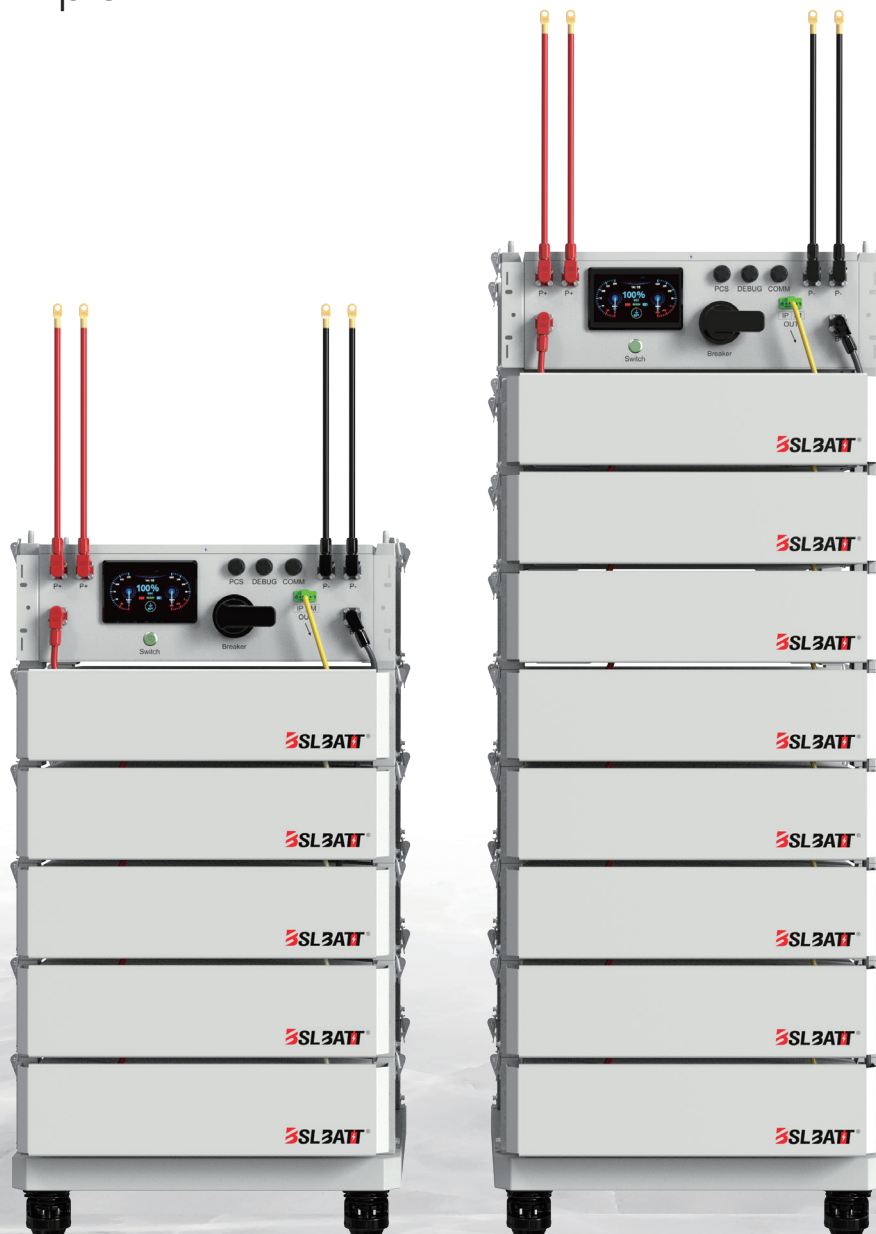


# ESS-GRID HV PACK

7.8kWh / Per Module | 115.2V – 800V

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
Battery Module	57.6V 135Ah 7.776kWh			
Rated Voltage(V)	288.0	345.6	403.2	460.8
Rated Capacity(Ah)	135	135	135	135
Cell Model(LFP-3.2V)(Ah)	135	135	135	135
System Configuration	90S1P	108S1P	126S1P	144S1P
Battery Single Box Number	5 pack+ 1 control box	6 pack+ 1 control box	7 pack+ 1 control box	8 pack+ 1 control box
Rate Power(kWh)	38.88	46.66	54.43	62.21
Charge Cut-off Voltage(V)	319.5	383.4	447.3	511.2
Discharge Cut-off Voltage(V)	256.5	307.8	359.1	410.4
Recommended Current(A)	68	68	68	68
Maximum Charging Current(A)	80	80	80	80
Maximum Discharging Current(A)	80	80	80	80
Dimension(L*W*H)(MM)	586*713*1071	586*713*1226	586*713*1381	586*713*1536
Host Software Protocol	CAN BUS (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	0~35°C			
Storage Humidity	10%RH ~90%RH			
Internal Impedance	≤1Ω			
Warranty	10 years			
Transportation	UN38.3			
Battery Life	≥15 years			
Weight	Base: 18kg   Single Pack: 68kg   High voltage Box: 20kg			

### Easy Snap Design



Integrated  
WIFI/Bluetooth

### High Voltage Box Parameters

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)	580*713*170
Weight	20kg
Communication Protocol	CAN BUS (Baud rate @500Kb/s or @250Kb/s)/Modbus RTU(@9600b/s)
Operation Life (Year)	15+
Operation Temperature(°C)	-20~55
Ingress Protection	IP20

## Technical Specification

Model	HV PACK 9	HV PACK 10	HV PACK 11	HV PACK 12
Battery Module	57.6V 135Ah 7.776kWh			
Rated Voltage(V)	518.4	576.0	633.6	691.2
Rated Capacity(Ah)	135	135	135	135
Cell Model(LFP-3.2V)(Ah)	135	135	135	135
System Configuration	162S1P	180S1P	198S1P	216S1P
Battery Single Box Number	9 pack+ 1 control box	10 pack+ 1 control box	11 pack+ 1 control box	12 pack+ 1 control box
Rate Power(kWh)	69.98	77.76	85.5	93.3
Charge Cut-off Voltage(V)	575.1	639.0	702.9	766.8
Discharge Cut-off Voltage(V)	461.7	513.0	564.3	615.6
Recommended Current(A)	68	68	68	68
Maximum Charging Current(A)	80	80	80	80
Maximum Discharging Current(A)	80	80	80	80
Dimension(L*W*H)(MM)	586*713*1691	586*713*1846	586*713*2001	586*713*2156
Host Software Protocol	CAN BUS (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	0~35°C			
Storage Humidity	10%RH ~90%RH			
Internal Impedance	≤1Ω			
Warranty	10 years			
Transportation	UN38.3			
Battery Life	≥15 years			
Weight	Base: 18kg   Single Pack: 68kg   High voltage Box: 20kg			



Easy Snap Design



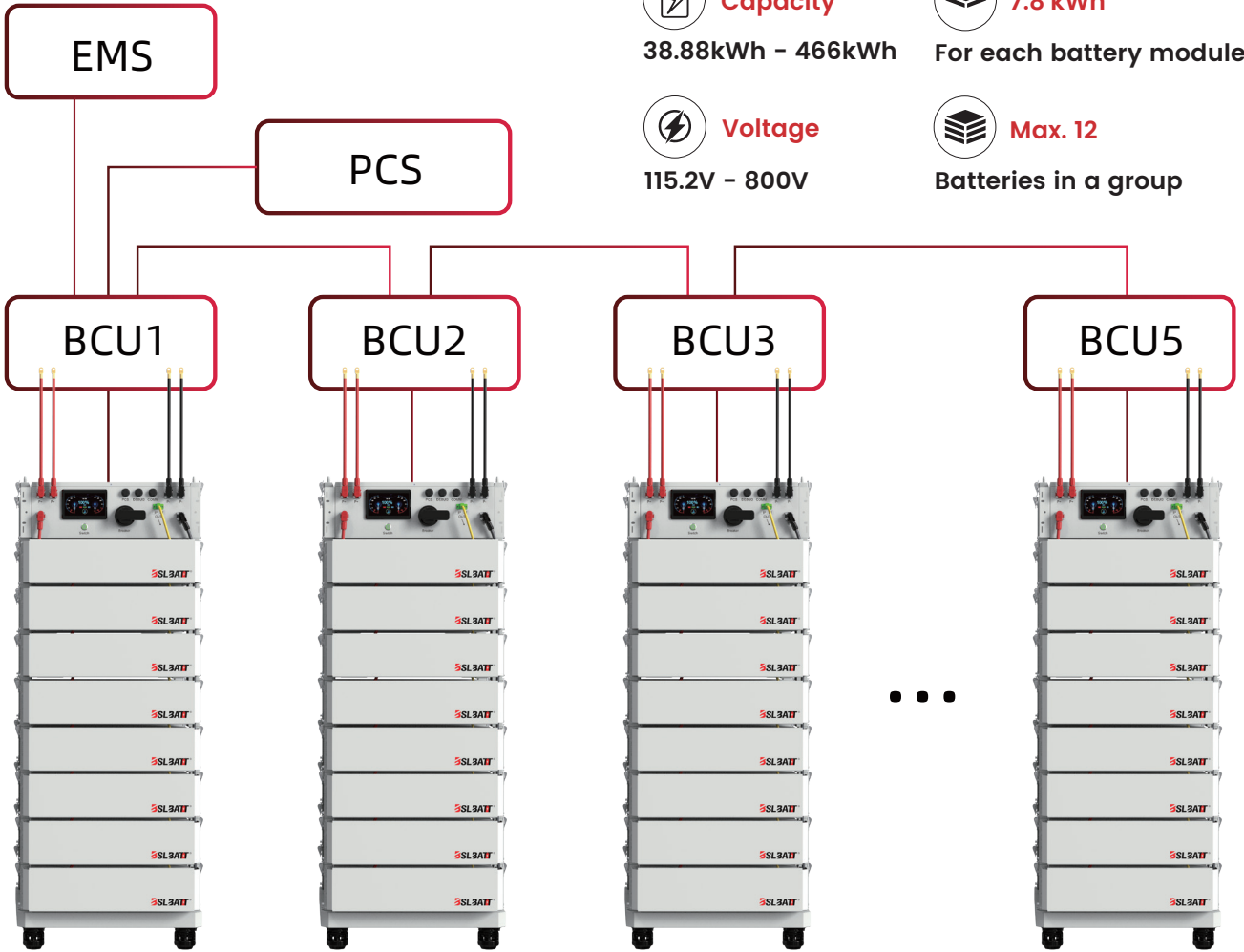
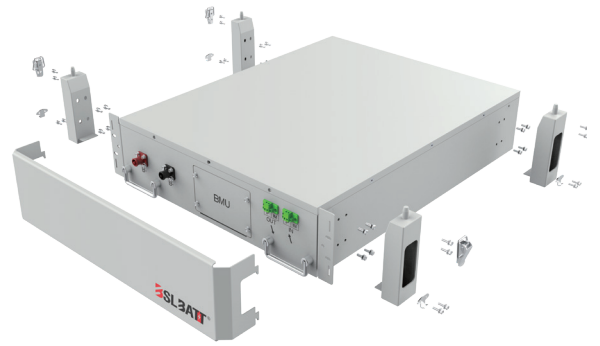
Integrated WiFi/Bluetooth

### High Voltage Box Parameters

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# Feel Free To Expand As Needed.

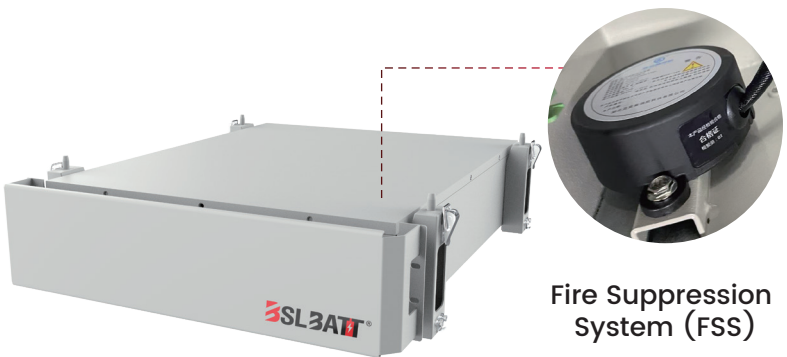
Simple, flexible, cost-saving battery rack.



- Capacity**  
38.88kWh - 466kWh
- 7.8 kWh**  
For each battery module
- Voltage**  
115.2V - 800V
- Max. 12**  
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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