









# SP-HV5120-S Series / 5-40kWh

Residential&Commercial High Voltage Lithium Battery



-   
Over Current Protection
-   
Over Charge Protection
-   
Over Discharge Protection
-   
Soft Start Function
-   
Voltage Protection
-   
Cell Balance Function
-   
Short Current Protection
-   
Temperature Protection

- Long Design Life
- Multiple Protection
- Modular Design
- Dekra Certification
- Scalable & Flexible
- Easy Maintenance

## Modular Design & Easy Installation

HV-BMS Control Box



LiFePo4 Battery Pack



Bottom Base



### Easy Installation

- A single module with small dimension and weights less than 48kg
- Wireless connection and fewer accessories
- Optimized design of handles and interfaces realizes easy installation

### Modular Design

- With a wireless connection, it is no need to disassemble wires during maintenance
- The modular design of BMS makes maintenance convenient and reduces maintenance time
- With cloud monitoring fast troubleshooting

### Flexible Expansion

- Optimized design of module voltage makes Sunplus batteries compatible with popular inverters
- 2-8 modules connected in series to form a complete unit
- Units can be connected in parallel to enlarge electric capacity



**HV-BOX01**  
HV BMS Control Box  
+  
Bottom Base



**SP-HV5120-S**  
5.12kWh LiFePO4 Battery pack,  
102.4V, 50AH



**High Voltage Energy Storage Battery**

# S1

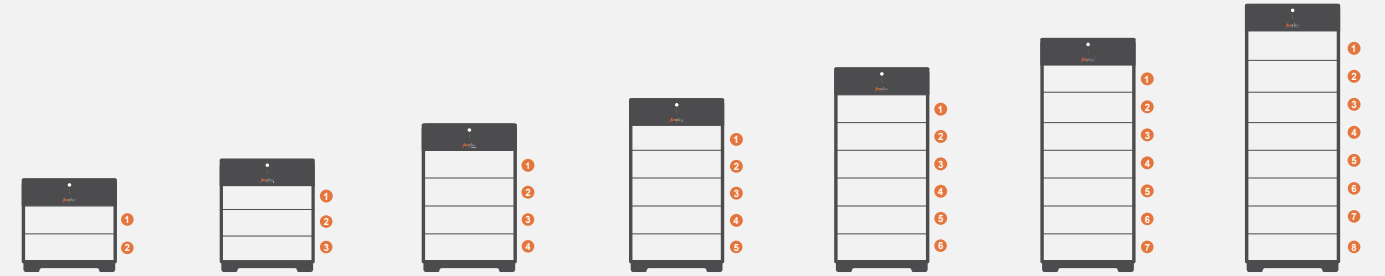
## HV5120-S1 Specification



Product Name	HV Stacked LFP Battery
Module Model	SP-HV5120-S1
Battery Type	LFP 1P32S
Nominal Capacity	50Ah / 5.12kWh
Usable Capacity	4.86kWh (95% DOD)
Nominal Voltage	102.4V
Working Voltage	91.2~115.2V
Charging Voltage	112V
Max. Continuous Charge Current	25A
Max. Continuous Discharge Current	40A
Communication	RS485 , CAN
Storage Temperature	0℃ ~45℃ (Recommended)
Storage Humidity	≤85% (RH)
Working Temperature	Charging: -10℃ ~50℃ Discharging: -20℃ ~50℃
Working Humidity	≤95% (RH) No Condensation
Working Altitude	≤2000m
Ingress Protection	IP65
Protective Class	I
Weight	<67kg
Dimension(W x D x H, mm)	636 x 330 x 188
Design Life	15 Years (25℃)
Cycle Life	>6000 (25℃), 60% EOL
Scalability	Module: Max. 8S, Max. 8 in parallel (Capacity 327.68kWh)
Certification	CE/UKCA: IEC/EN61000-6-2/3, CB: IEC62619, IEC63056, IEC60730 UN38.3, MSDS, DEKRA SEAL

# S2-S8

## Rechargeable Lithium Iron Phosphate Battery System



Product Model	SP-HV5120-S2	SP-HV5120-S3	SP-HV5120-S4	SP-HV5120-S5	SP-HV5120-S6	SP-HV5120-S7	SP-HV5120-S8
Nominal Capacity(kWh)	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Usable Capacity(kWh)	9.72	14.58	19.44	24.3	29.16	34.02	38.88
Nominal Voltage(V)	204.8	307.2	409.6	512	614.4	716.8	819.2
Working Voltage(V)	182.4~230.4	273.6~345.6	364.8~460.8	456~576	547.2~691.2	638.4~806.4	729.6~921.6
Charging Voltage(V)	224	336	448	560	672	784	896
Max. Continuous Charge Current(A)	25	25	25	25	25	25	25
Max. Continuous Discharge Current(A)	40	40	40	40	40	40	40
Weight(kg)	<110	<155	<200	<245	<290	<335	<380
Dimension(W x D x H, mm)	636*330*628	636*330*816	636*330*1004	636*330*1192	636*330*1380	636*330*1568	636*330*1756
Design Life	15 Years (25℃)						
Scalability	Max. 8 in parallel						

### Compatibility List



### Accessories

