

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

Residential&Commercial High Voltage Lithium Battery



## 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

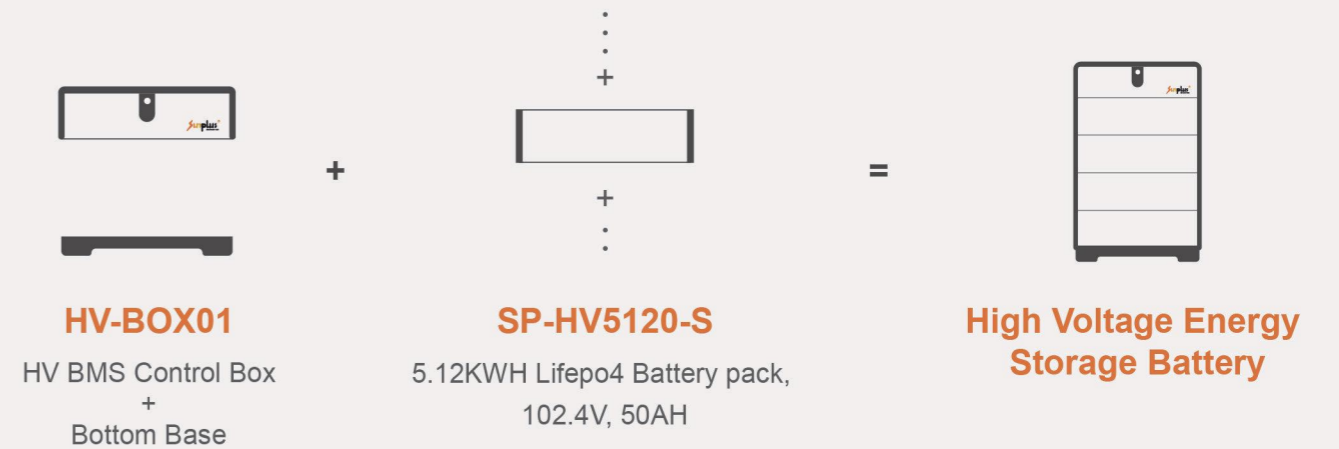
- With a wireless connection, it is no need to disassemble wires during maintenance
- The modular design of BMS makes maintenance convenient and reduces maintenance time
- With cloud monitoring fast troubleshooting

### 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

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



# S1

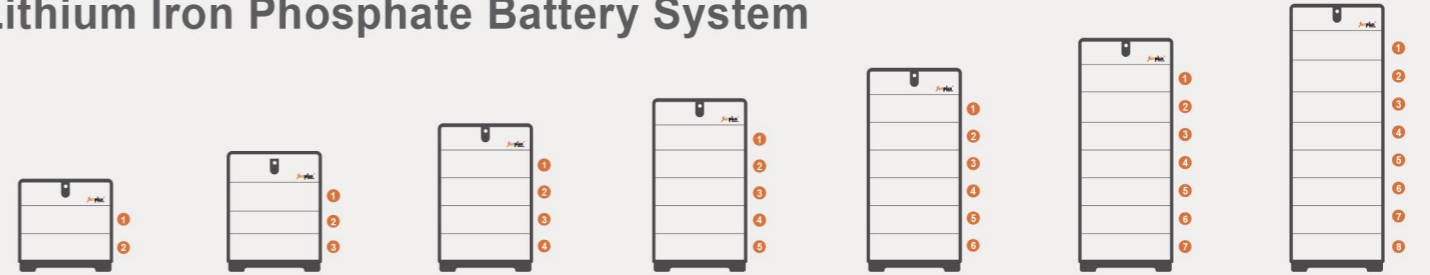
## HV5120-S1 Specification



Product Name	HV Stacked LFP Battery
Module Model	SP-HV5120-S1
Battery Type	LFP 1P32S
Nominal Capacity	5.12kWh
Usable Capacity	4.86kWh (95% DOD)
Nominal Voltage	102.4V
Working Voltage	91.2~115.2V
Charging Voltage	112V
Max. Charge Current	25A
Max. Discharge Current	40A
Communication	RS485 , CAN
Storage Temperature	0℃~45℃ (Recommended)
Storage Humidity	≤85% (RH)
Working Temperature	Charging: 0℃~50℃ Discharging: -20℃~50℃
Working Humidity	≤95% (RH) No Condensation
Working Altitude	≤2000m
Ingress Protection	IP55
Protective Class	I
Weight	~48kg
Dimension(W*D*H)	636mm*330mm*188mm
Design Life	15 Years (25℃)
Cycle Life	>6000 (25℃) ,60% EOL
Scalability	Module: Max. 8S, Max. 8 in parallel (Capacity 327.68kWh)
Certification	CE, IEC62619, IEC63056, IEC/EN61000-6-2/3, UN38.3 (upcoming)

# 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. Charge Current(A)	25	25	25	25	25	25	25
Max. Discharge Current(A)	40	40	40	40	40	40	40
Weight(kg)	~117	~165	~213	~261	~309	~357	~405
Dimension(mm³)	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

Afore

GOODWE

Deye

SOFAR SOLAR

invt

AISWEI

LUPOWER™

solis

hoymiles 禾迈

Voltronk Power

KOYOE Solar Energy

### Accessories



Inverter to Battery Positive & Negative Power Cables



RJ45 Communication Cable



Grounding Cable