

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	> 8000 (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
Rated Power (kW)	8.192	12.288	16.384	20.480	24.576	28.672	32.768
Maximum Out Power (kW)	9.216	13.824	18.432	20.040	27.648	32.256	36.864
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						
Types of Protection	Against excessive energy charging, Against excessive energy discharge, Against too high or too low charging current, Against short circuit/reverse polarity, Against overheating, Before charging at low temperatures, Sleep mode after charging.						
Work Profiles	Charging only from a photovoltaic installation, Charging from the cut power of the photovoltaic installation, Charging from a photovoltaic installation and the power grid						

Compatibility List



Accessories

