

HS5120 Series

HV C&I

Energy Storage Battery



[HS5120]

Convenient: integrated with standard accessories, make the installation and maintenance quick and easy.

Safe and Reliable: low self-discharge rate, up to half year shelf life, LFP material ensure the safety and long cycle life.

Intelligent BMS: it has protection functions including over-discharge, over-charge, over-current and over-high or low temperature. The system can automatically manage charge and discharge state and balance current and voltage of each cell.

Eco-friendly: the whole module is non-toxic, non-polluting and environmentally friendly.

Flexible Configuration: stackable design easy to expand the capacity.

Wide Temperature: working temperature range is from -20 ~ 55°C, with excellent discharge performance and cycle life.

Rapid Charge/Discharge: up to 1C charge and discharge ability.

Technical Parameters

Series	HS5120			
Battery Cell Chemistry	Lithium Iron Phosphate (LiFePO ₄ or LFP)			
Module Nominal Voltage (V)	102.4			
Module Rated Capacity (Ah)	50			
Module Energy (kWh)	5.12			
System Model	HS5120-1	HS5120-2	HS5120-4	HS5120-4
Battery Module Qty In Series	1	2	3	4
System Nominal Voltage (V)	102.4	204.8	307.2	409.6
System Energy (kWh)	5.12	10.24	15.36	20.48
System Operating Voltage (V)	89.6~115.2	179.2~230.4	268.8~345.6	358.4~460.8
Rated DC Power (kW)	4.6	9.2	13.8	18.4
Standard Charge/Discharge Current (A)	25			
Max. Charge/Discharge Current (A)	45			
Peak Charge/Discharge Current (A)	30/50@60s			
Cycle Life	≥6000 @ 0.5C 80%DOD			
Design Life	20 years			
Scalability	N/A			

▸ Mechanical Specifications

Dimension (mm)	762*347*536	762*347*725	762*347*914	762*347*1105
Weight (Approx. ±2kg)	75	120	165	210
Communication	RS485, CAN			
Ingress Rating	IP 54			
Safety Standards	UN38.3, CE			
Installation	Stackable			

▸ Environmental Specifications

Storage Temperature (°C)	-20 ~ 55
Operating Temperature Charge (°C)	0 ~ 55
Operating Temperature Discharge (°C)	-20 ~ 60
Operating Relative Humidity	5 ~ 95%
Operating Attitude	≤2000

▸ System Component

Item	Description	Qty
Control Unit	/	1
Battery Module	HS5120	4
Battery Base	/	1
System Output Cable +	IF-PA-05716-P(orange)/SC10-6/8AWG/750mm	1
System Output Cable -	IF-PA-05716-P(black)/SC10-6/8AWG/750mm	1

