

# 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 <sub>4</sub> 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)	5.12	10.24	15.36	20.48
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	NA			

## ▾ 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 67			
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 +	CT75A-1T-20(4/6)-01/SC10-6/UL3512 8AWG(red)/750mm	1
System Output Cable -	CT75A-1Z-19(4/6)-01/SC10-6/UL3512 8AWG(black)/750mm	1

