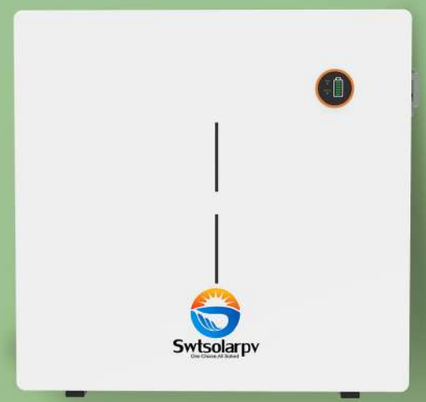
Swtsolarpv
One Choice,All Solved

WALL-MOUNTED LITHIUM BATTERY

Wall-mounted Battery

Introduction:

A sleek and space-saving solution for your energy storage needs. With its compact design and easy installation, it seamlessly blends into any environment.



Space Saving

Customized Panel

Efficient Performance

Safe and Reliable

Real-time Monitoring

Durability

Intelligent BMS

Cost Effective

Model	SBH5.12K3-GL3	SBH10.24K3-GL3	SBH15.36K3-GL3
Nominal Voltage(VDC)	51.2	51.2	51.2
Nominal Capacity(KWH)	5.12	10.24	15.36
Working Voltage Range(VDC)	44.8~56.16	44.8~56.16	44.8~56.16
Charge Voltage(VDC)	58.4	58.4	58.4
Nominal Charge/Discharge Current(A)	50	100	100
Max.Charge/Discharge Current(A)	100	200	200
Peak Current(A)	200@3sec	400@3sec	600@3sec
Parallel Connection	⩽ 16 pcs		
Cycle Life	6000@80%DOD, 25°C /0.5C		
Structure			
Dimension(MM)	520*470*142	800*590*142	856*820*176
Weight(KG)	47.2	93.5	140.7
IP Rating	IP65		
Installation	Wall mounted/Floor stand		
Working Environment			
Charge Working Temperature(°C)	0~55		
Discharge Working Temperature(°C)	-20~60		
Altitude(M)	＜ 2500		
Humidity(RH)	5~95% (non-condensing)		
Communication			
Communication Port	RS485/CAN		
Display	SOC status indicator, LED indicator		
Certification			
CB,IEC62619,UL1973,UKCA,CE-EMC,CE-GPSD,EN62619;UN38.3,MSDS			

Lithium Battery Series

Introduction:

With their compact form factor and high performance, wall-mounted lithium batteries help optimize solar energy utilization and improve the overall sustainability of the energy system.

Model	SBH0.64K1-FL3	SBH1.1K1-FL3	SBH1.28K1-FL3	SBH1.28K2-FL3
Type	Lithium Battery			
Nominal Voltage	12.8V			25.6V
Battery Module	640WH	1.1KWH	1.28KWH	1.28KWH
Nominal Capacity/Energy	50Ah/640WH	86Ah/1.1KWH	100Ah/1.28KWH	50Ah/1.28WH
Rated Capacity/Energy	45Ah/576WH	77.4Ah/0.99KWH	90Ah/1.15KWH	45Ah/1.15WH
Operating Voltage	11.2- 14.2V			22.4-28.4V
Rated Charging/Discharging Current	25A	43A	50A	25A
Max Charging/Discharging Current	48A	83A	96A	48A
Rated Charging/Discharging Power	0.32KW	0.55KW	0.64KW	0.64KW
Max Charging/Discharging Power	0.65KW	1.1KW	1.25KW	1.25KW
Battery Type	Lithium Iron Phosphate (LFP)			
Operative Temperature Range	-10~50°C			
Recommended Operating Temperature	15°C ~30°C			
Cooling	Natural cooling			
Efficiency Of Discharge	96~99%@1C			
Function				
Installation	Floor standing installation			
Ingress Protection	IP20			
Alarm&Protection	Over Voltage, Under Voltage, Over Current,Over temperature, Short Circuit etc.			
Communication Port	RS232/CAN/RS485(Optional)			
Cell Safety Certification	CE,IEC62619,UL1973,CEC,UN38.3			

Model	SBH2.2K2-FL3	SBH2.56K2-FL3	SBH2.56K3-FL3	SBH4.4K3-FL3	SBH5.12K3-FL3
Type	Lithium Battery				
Nominal Voltage	25.6V			51.2V	
Battery Module	2.2KWH	2.56KWH	2.56KWH	4.4KWH	5.12KWH
Nominal Capacity/Energy	86Ah/2.2KWH	100Ah/2.56KWH	50Ah/2.56WH	86Ah/4.4KWH	100Ah/5.12KWH
Rated Capacity/Energy	77.4Ah/1.98KWH	90Ah/2.3KWH	45Ah/2.3WH	77.4Ah/3.96KWH	90Ah/4.6KWH
Operating Voltage	22.4-28.4V			47.2- 56.8V	
Rated Charging/Discharging Current	43A	50A	25A	43A	50A
Max Charging/Discharging Current	83A	96A	48A	83A	96A
Rated Charging/Discharging Power	1.1KW	1.28KW	1.28KW	2.2KW	2.56KW
Max Charging/Discharging Power	2.17KW	2.5KW	2.5KW	4.4KW	5.02KW
Battery Type	Lithium Iron Phosphate (LFP)				
Operative Temperature Range	-10~50°C				
Recommended Operating Temperature	15°C ~30°C				
Cooling	Natural cooling				
Efficiency Of Discharge	96~99%@1C				
Function					
Installation	Floor standing installation				
Ingress Protection	IP20				
Alarm&Protection	Over Voltage, Under Voltage, Over Current,Over temperature, Short Circuit etc.				
Communication Port	RS232/CAN/RS485(Optional)				
Cell Safety Certification	CE,IEC62619,UL1973,CEC,UN38.3				

Lithium Battery Series

Introduction:

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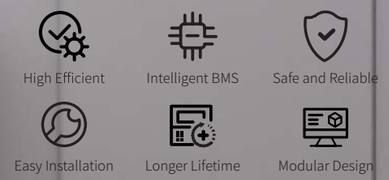
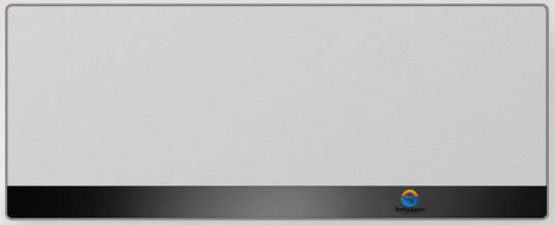


Model	SBH2.56K3-FL3	SBH5.12K3-FL3	SBH10.24K3-FL3
Type	Lithium Battery		
Nominal Voltage	51.2V		
Battery Module	2.56kWh	5.12kWh	10.24kWh
Nominal Capacity/Energy	50Ah/2.56kWh	100Ah/5.12kWh	200Ah/10.24kWh
Rated Capacity/Energy	45Ah/2.3Wh	90Ah/4.6kWh	180Ah/9.2kWh
Operating Voltage	47.2~56.8v		
Rated Charging/Discharging Current	25A	50A	100A
Max Charging/Discharging Current	48A	96A	192A
Rated Charging/Discharging Power	1.28kW	2.56kW	5.12kW
Max Charging/Discharging Power	2.5kW	5.02kW	10.04kW
Battery Type	Lithuim iron phosphate(LFP)		
Operative Temperature Range	-10~50° C		
Recommended Operating Temperature	15° C~30° C		
Cooling	Nature cooling		
Efficiency Of Discharge	96~99%@1C		
Function			
Installation	Floor standing installation		
Ingress Protection	IP20		
Alarm&Protection	Over Voltage, Under Voltage, Over Current,Over temperature, Short Circuit etc.		
Communication Port	RS232/CAN/RS485(Optional)		
Cell Safety Certification	CE,IEC62619,UL1973,CEC,UN38.3		

51.2V 6.144KWH LiFePO4 Battery-BYD Blade Cell

Introduction:

This battery cell is low-voltage LiFePO4 power wall battery for solar energy storage system. Built in BYD original BMS/BMU/BCMU battery management system, it integrates and displays multi-level security functions with excellent performance, design cycle life 6000 times.



Model	SBH6.14K3-EB2
Perfomance	
Battery Type	BYD Blade Lithium iron phosphate (LiFePO4)
Battery Energy(KWH)	6.144KWH
Nominal Capacity(AH)	120AH
Nominal Voltage(V)	51.2V
Operating Voltage Range(V)	43.2V-57.6V
Standard Charging Mode	Constant current charging (CC)
Standard Charging Current(A)	30A @25°C
Max. Constant Charging Current(A)	120A@25°C
Charge Limit Voltage(V)	60.8V
Standard Discharging Mode	Constant current discharging (CC)
Standard Discharging Current(A)	30A @25°C
Max. Constant Discharging Current(A)	120A@25°C
Discharge Cut-off Voltage (V)	32V
Scalability	Max. 16 strings in parallel
Depth Of Discharge(DOD)	80%
Design Life	>5000times(25°C /77F)
Compatible Hybrid Inverters	SI1P5KLE/SI1P6KLE/SIXP8KLE and other brands in the market
Protection Function	
Protection	Over-temperature, over charge, under-voltage, over current, short circuit alarm function
Display and Communication	
Display	LED indicator
Communication	CAN/RS495
General data	
Dimension(H*W*D)	1075*420*140MM
Weight	69KG
Installation	Wall Mount
Shipping Status SOC	20%-40%
Charging Temperature	-20~+55°C
Discharging Temperature	-20~+60°C
Short term Storage Ambient Temperature	-20~+35°C (< 3 months, 20-60% SOC)
Long Term Storage Ambient Temperature	-20~+30°C (< 1 year, 30-60% SOC)
Max. Operating Altitude	4,000m(Derating Above 2,000m)
Protection Degree	IP21, indoor installation
Relative Humidity	5%~95%
Cooling	IP21, indoor installation
Noise Emission	< 29db
Certificate	CE,IEC62619,UN38.3,UL

51.2V 120AH/130AH/140AH BYD Blade LiFePO4 Battery Module

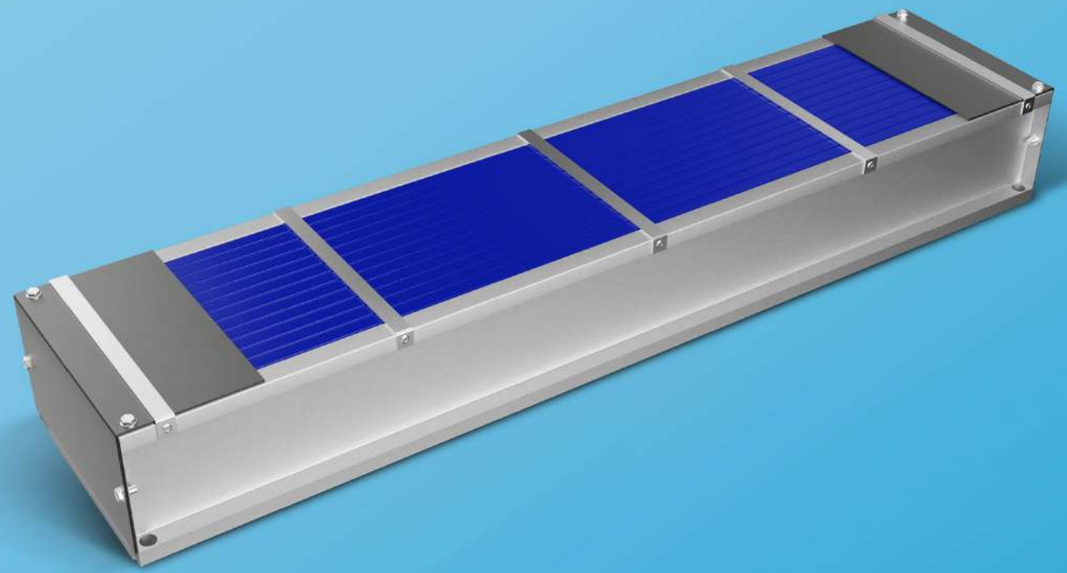
Introduction:

BYD Blade battery is made of lithium iron phosphate as cathode material; Excellent safety features and long cycle life; Good temperature performance, wide operating temperature range, high energy density, and is environment friendly.

Household

High Voltage

Industrial &commercial energy storage



Model	SBM51.2V120H-B2	SBM51.2V130H-B2	SBM51.2V140H-B2
Basic Specification			
Nominal Voltage	51.2V		
Nominal Capacity	120AH	130AH	140AH
Structure Specification			
Length(MM)	1006.8±3MM		1020±3MM
Width(MM)	260 3±MM		266.7±3MM
Height(MM)	94.7±3MM		95.2±3MM
Weight(KG)	About 46KG		About 46.5KG
Electrical Specification			
Standard Charging Mode	CC/CP/VP		
Charging Current	100A(Maximum continuous charging current) @25° C		
Charge Limit Voltage(V)	3.8V/CELL		
Standard Discharging Mode	CC/CP/VP		
Max. Constant Discharging Current(A)	100A(Maximum continuous discharging current) @25° C		
Discharge Cut-Off Voltage (V)	2.7V/CELL		
Operating conditions			
Working Temperature	Charging: 0~+50° C		
	Discharging: -20~+55° C		
Storage Temperature	Short term storage: -10~+55°C (<3 months, SOC: 20%~60%)		
	Long term storage: -10~+40°C (<1 year, SOC:30%~60%)		
Storage Humidity	5%~95%		
Shipping Status	Shipping state voltage(V) :3.20~3.30V/CELLSOC:20%~40%		
	SOC:20%~40%		
Output Connection	Hexagon head bolt, Spring washer, Flat washer assembly-M6*12		
Sampling Line Terminal	CJT C3030HF-2*13P		
	CJT C3030HF-2*10P C3030HF-2*9P		
Output Nominal Torque	6.0-6.5 N.M		
Requirements For Storage And Power Supply	Charge and discharge once every 6 months and then recharge to 25% SOC(Room temperature environment)		

51.2V 50AH BYD LiFePO4 Battery Module

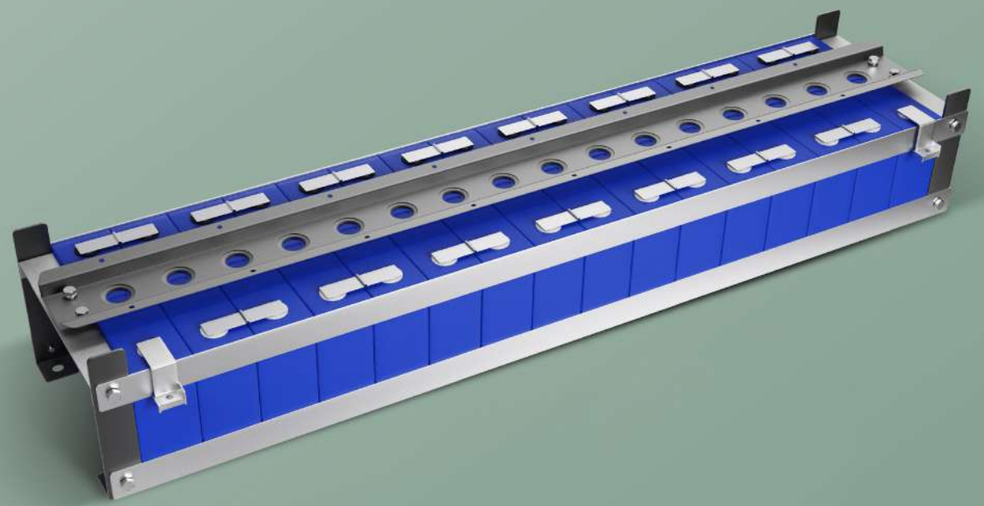
Introduction:

Lithium iron phosphate batteries (LiFePO4 or LFP) offer lots of benefits compared to lead-acid batteries.

Household

High Voltage

Industrial &commercial energy storage



Model	SBM51.2V50H-B2
Data sheet	
Nominal Voltage	51.2V
Nominal Capacity(AH)	50AH
Structure Specification	
Length(MM)	810.0±3MM
Width(MM)	205.0±3MM
Height(MM)	145.0±3MM
Weight(KG)	About 30KG
Electrical Specification	
Standard Charging Mode	CC/CP/VP
Charging Current	50A @25°C
Charge Limit Voltage(V)	3.8V/CELL
Max. Constant Discharging Current(A)	50A @25°C
Discharge Cut-off Voltage (V)	2.7V/CELL
Operating conditions	
Working Temperature	Charging: 0~+50°C
	Discharging: -20~+55°C
Storage Temperature	Short term storage: -10~+55°C (<3 months, SOC: 20%~60%) Long term storage: -10~+40°C (<1 year,SOC: 30%~60%)
Storage Humidity	5%~95%
Shipping Status	Voltage(V):3.20~3.30V/CELL SOC:20%~40%
Output Connection	Hexagon head bolt and spring washer and plain washer assembly_M6x10
Sampling Line Terminal	CJT C3030HF-2*13P
Output Nominal Torque	6.0-6.5 NM
Storage Requirements	Charge and discharge once every 6 months, and then recharge to 25% SOC(Room temperature environment)