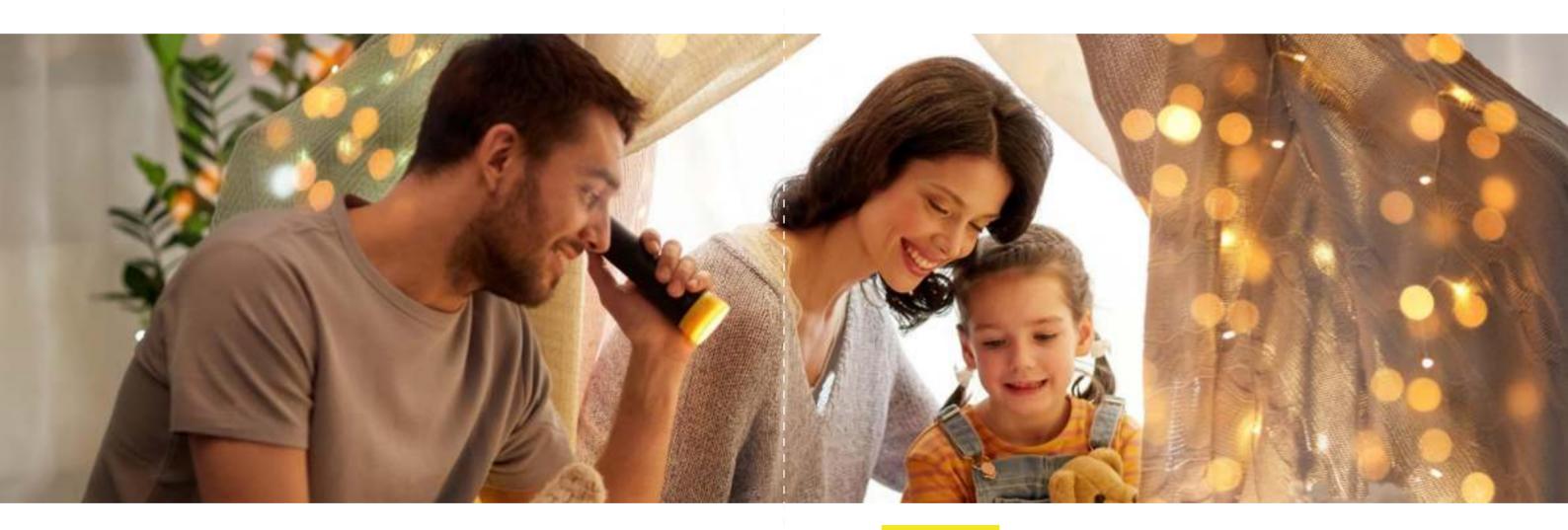


2022 **COMPANY PROFILE**



BlauHoff

Add: Heemstraweg 123, 6651 KH, Druten- NL Tel: 0031 (0)854865755 E-mail: info@blauhoff.com Web: Blauhoff.com

ElauHoff[°]

BlauHoff BATTERY EXPERT-GREEN ENERGY PROVIDER

YOUR OWN POWER, A GOOD FEELING!



BlauHoff

2022 **COMPANY PROFILE**

LI-ION BATTERY FOR ENERGY STORAGE

H.	•		

С Н Ц 01 **Batteries** FZ Cabinets 04 11 Brackets 13 17 HUB 18

All-in-One ESS

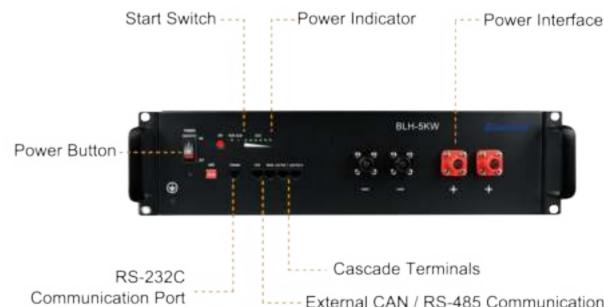
Accessories



Batteries



Operation Panel



Introduction

BLH series, the new generation LFP battery for home energy storage system. It provides safe, well-designed and high-performance standard LFP battery pack for you. The battery pack is compact, easy to install, free of maintenance, and could be deployed to the building block of energy storage system by being assembled in parallel. It is widely applied in home applications, small commercial and industrial energy storage system as well as Telecom stations.

Features

Self-Consumption

store excess energy generated by solar panels and use it whenever needed



(∕‡)

Back-Up Power Supply

provide emergency power supply during grid outage



Electricity Bills Reduction

charge the battery during off-peak period and discharge the battery during peak period



মি

Smart Energy Management

measure, monitor and manage the system in real-time optimize the system life span by intelligent algorithms



Wide Compatibility

compatible with 16 mainstream inverters in the market

10 Years Warranty

IEC



Brackets For BLH-5KW (2.6U)



BLH-5KW

L440mm* W620mm * H117mm (2.6U) 51.2V100Ah 5.12kWh

External CAN / RS-485 Communication Port

Cabinets

Technical Specifications

Battery Model	BLH-5KW
Chemistry	LFP
Nominal Voltage	51.2V
Voltage Range	47.5V-57.6V
Nominal Capacity	100Ah
Nominal Energy	5.12kWh
Unit Dimension	L440mm* W620mm* H117mm (2.6U)
Unit Weight	51kg
Standard Charge Current	50A
Maximum Charge Current	50A
Standard Discharge	50A
Maximum Discharge Rate	50A
Round-Trip Efficiency	≥95%
Communication Protocol	RS232, RS485, CAN
Cycle Life	≥6000cycles
Calendar Life	≥10years
Operating Temperature	-10°C~50°C
Connect style	Parallel
Storage Temperature	Within 1month: -20~55°C,1-3months: 0~35°C, 3-12months: 20~25°C









Introduction

The BLH Homebox A is a state-of-the-art home energy storage system solution. It has a total usable energy capacity of 10kWh. Product features include quick and easy installation, a compact and elegant home style design and great extensibility. The BLH Homebox A can provide smart configurable backup power during grid outages and power smart homes with solar energy, day and night.

Technical Specifications

Model	
Total capacity	10.24kWh
Usable capacity	9.22kWh
Chemistry	Lithium iron phosphate
Nominal voltage	51.2V
Max. charge/ discharge current	100A
Communication	CAN, RS485
Certificate	UL1973, IEC62619, CE
Operating Temperature	Charge:0~45°C; Discha
Altitude	Max.2000 meters
Compatibility	Deye, Solis, Victron, Vo Kelong, Goodwe, Stude

Homebox A

Homebox A

e(LFP)

E, UN38.3

arge:-10~50°C

/oltronic, Sol-ark, Growatt, SRNE, Luxpower, der, SMA,Sermatec, Megarevo etc.

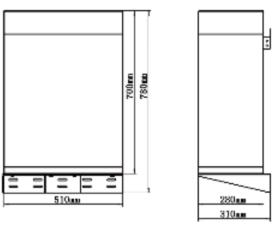
Mechanical Design	Parameter
Dimensions(W*D*H)	280*510*700mm 310*510*780mm(including holder)
Weight	120kg
Mount	Wall/Floor mount
Enclosure rating	IP20
Enclosure material	Cool-rolled steel
Cooling	Natural convection
Warranty	6000 cycles or 10 years



3D image

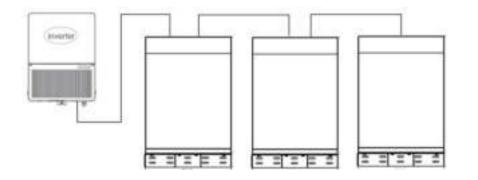


Mechanical drawing





BLH Home Energy Storage System can connect Homebox A up to 3 pcs without additional kit. You can use our BLH 1uHUB to get max 27 Homebox A connected in parallel.





Battery Capacity	4.8kWh	7.2kWh	9.6kWh	14.4kWh
Protect Level	IP20			



310*530*736mm
120kg
Wall/Floor mount
Homebox R-IP65
Cool-rolled steel
Natural convection
6000 cycles or 10 y

3D image

Introduction

The BLH Homebox R-IP65 is a state-of-the-art home energy storage system solution. It has a total usable energy capacity of 10kWh. Product features include quick and easy installation, a compact and elegant home style design and great extensibility. The BLH Homebox R-IP65 can provide smart configurable backup power during grid outages and power smart homes with solar energy, day and night.

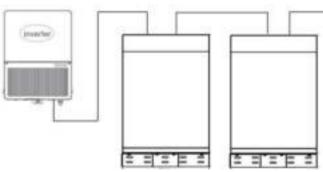
Technical Specifications

Model	Homebox R-IP65
Total capacity	10.24kWh
Usable capacity	9.22kWh
Chemistry	Lithium iron phosphate(LFP)
Nominal voltage	51.2V
Max. charge/ discharge current	100A
Communication	CAN, RS485
Certificate	UL1973, IEC62619, CE, UN38.3
Operating Temperature	Charge:0~45°C; Discharge:-10~50°C
Altitude	Max.2000 meters
Compatibility	Deye, Solis, Victron, Voltronic, Sol-ark, Growatt, SRNE, Luxpower, Kelong, Goodwe, Studer, SMA,Sermatec, Megarevo etc.



Battery Expansion

BLH Home Energy Storage System can connect Homebox R-IP65 up to 3 pcs without additional kit. You can use our BLH 1uHUB to get max 27 Homebox R-IP65 connected in parallel.

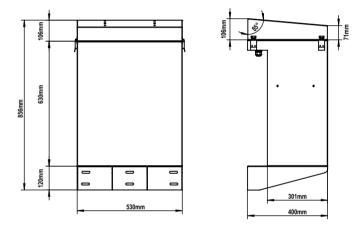


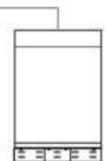
Parameter

310*530*856mm(including holder)

years

Mechanical drawing







Homebox RB

- · Easy to install
- Expandable up to 6 units BLH-5KW(30kWh in total)
- . Long usage life
- · Adapt to multiple inverters

Application Scenario



Introduction

Expand your energy storage with the Homebox RB Cabinet! This iron enclosure stores up to 6 BLH-5KW batteries. The Homebox RB Cabinet paired with multiple batteries can build a 48V UPS server rack or provide storage capacity to home solar arrays.

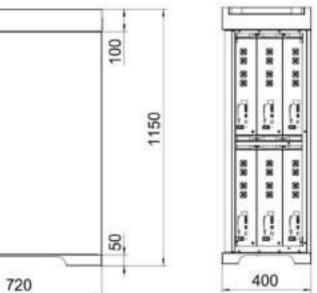
Product Topology





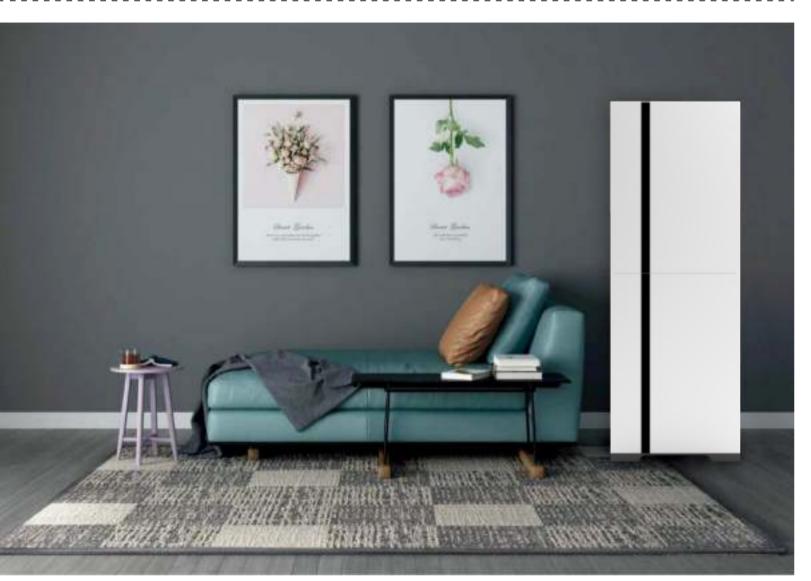
Product Topology

	62	69	84	65	86	
Battery capacity	10.24kWh	15.36kWh	20.48kWh	25.6kWh	30.72kWh	
Nominal voltage	51.2V					
Standard Charge/Discharge Current	100A	150A	200A	250A	300A	
Maximum Charge/Discharge Current	100A	150A	200A	250A	300A	
Operating Temperature		Charging:0-45°C; Diacharge:-10-50°C				
Warranty		Cabinet: 3 years Battery: 10 years				
Positive and Negative Battery Busbars		2*8 points; M8 terminal rings				
Weight	120kg	170kg	220kg	270kg	320kg	
Dimensions(W*D*H)	720mm*400mm*1150mm					
Enclosure Protection	IP20 (indoor)					
Alltitude	<4000m					
Certificate	UL1973, IEC62619, CE, UN38 3					



All-in-One ESS

Homebox-all in one



Introduction

The Homebox-all in one, a new generation of energy storage products that integrate inverters and batteries, and is a landmark "New Home appliance". Homebox-all in one can manage your energy usage throughout the day, provide smart configurable backup power during grid outages and power smart homes with solar energy, day and night.

Specification

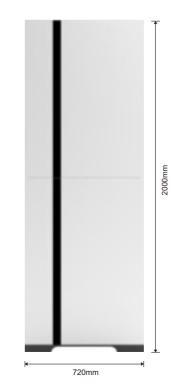
General Specification

Capacity	5.12kWh per battery module, up to 6 modules
Transfer switch	Automatic, integrated
Listed and recognized certificates	Battery modules: UL1973, IEC62619, CE, UN38.3 Inverter : IEC62109, IEC61727, TOR, IEC62116, IEC60068, IEC61683, NRS 097-2-1
Warranty	Battery: 10 years or 6,000 cycles Inverter: 5 years Cabinet: 10 years
Tomporatura rango	

Battery Module Specification		
DC battery input voltage 47.5–57.6V		
Max charge current	50 A per module	
Cell discharge	5.12kWh with 90% DoD	
Overcharge Protection	MOSFET & Fuse protection	

Technical Specification

	R2		R3
Capacity	10.24kWh	I	15.36kW
Nominal voltage			
Weight (approximate)	180kg		230kg
Dimensions W"/H"/D" (approximate)			
Inverter			8K
PV input power			10400W
PV input voltage			
MPPT voltage range			
Start-up voltage			
No.of MPPT trackers			
No.of strings per MPPT tra	acker		1+1
Rated AC output power			8000W
AC output rated current			12A
Grid type			

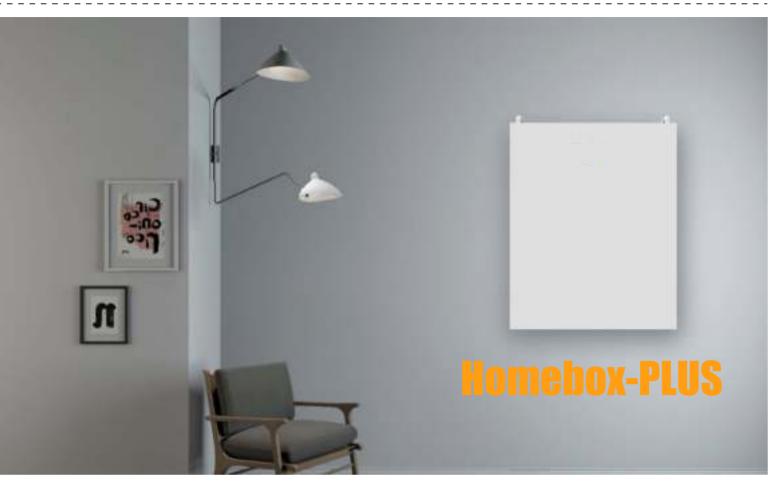


R4	R5	R6
20.48kWh	25.6kWh	30.72kWh
51.2V		
280kg	330kg	380kg
720*400*2000mm		
10K		12K
13000W		15600W
550V(150V~800)	/)	
200V~650V		
160V		
2		
2+1		2+1
10000W		12000W
15A		18A
-		

Three Phases



Brackets



Introduction

The Homebox-PLUS is a state-of-the-art wall-mounted home energy storage system solution. It has a total usable energy capacity of 5.12KWh. Product features include quick and easy installation, a compact and elegant home style design and great extensibility. The Homebox-PLUS can provide smart configurable backup power during grid outages and power smart homes with solar energy, day and night.

Product Display





Installation Steps

Step 1

Fix the square wall mount bracket in place on the wall by screws.

Step 2

Fix the battery bracket on the battery by screws.

Step 3

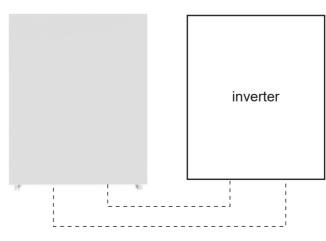
Hang the battery with battery bracket and cabinet on the square wall mount bracket.

Battery Expansion

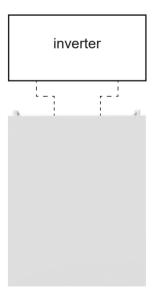
Homebox-PLUS can be parallel up to 8 pcs without additional kit.

Connection Mode

1.Port down







2.Port up



Introduction

In order to install the BLH-5KW Battery more conveniently and reduce installation costs, BlauHoff has developed this battery bracket. You can use it on a single battery or on multiple battery packs. Compared with cabinet storage, besides taking up less space, the bracket can ventilate and reduce the heat much more easily.



Unit Dimension	532mm*725mm*135mm
Unit Weight	8kg
Installation	 1.Install the parts by following 2.Screws are needed to asse 3.Multi-layer battery rack: after and racks, stack them up ver install in between each two laborations and the state of the s
	4.Secure multi-layer battery r 5.Connect multi-layer battery

Can bear more weight







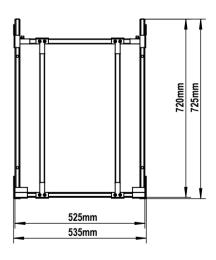


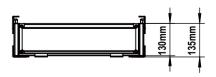




- ig the guide of the installation manual; emble single battery and rack; ter assembling all the single batteries rtically. Connection board is needed to ayers of battery racks; rack with accessories to the wall;
- rack to the distribution box.

Mechanical drawing





Accessories





Battery to Battery



Battery to Inverter

Battery to Battery

Battery to Inverter



160mm Positive Power Cable 160mm Negative Power Cable 560mm Positive Power Cable 560mm Negative Power Cable 500mm Positive Power cable 500mm Negative Power cable 2000mm Positive Power cable 2000mm Negative Power cable 220mm Standard communication cable 350mm Standard communication cable 500mm Standard communication cable B Class 500mm Compatible:solark, solis, growatt RS485/can SMA, goodwe can SRNE RS485 B Class 2000mm Compatible:solark、solis、growatt 485/can SMA、 goodwe can SRNE RS485 B Class 3500mm Compatible:solark、solis、growatt 485&can、SMA、goodwe can、 SRNE RS485 B Class 3500mm Compatible: Victron can B Class 3500mm Compatible: Voltronic Off-grid RS485 B Class 3500mm Compatible: Voltronic On-grid RS485



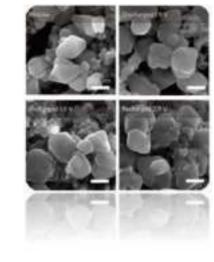
Each communication hub connects maximum 7 battery groups

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Each group supports maximum 8 pcs BLH-5KW in parallel



48V 300A Bus Bar



Self-designed BMS

- Equipped with automotive grade chips by TI[®] system.
- Double protection by master chips. When the main chip fails, the back-up chip keeps protecting the system.
- Real-time temperature, current, voltage measuring and monitoring.
- Accurate SoC and SoH calculation.









Quick Response

Quick local after-sales response/ 24hours*7days.



Cells& Packs

- The olivine structure and the stability of P-O bond of LFP cells guarantee much higher safety than those of NCM cells.
- 17 years experiences of pack R&D ensure longer cycle life of the battery.



Quality Assurance

• UL1973/ IEC62619/ CE/ UN38.3 Certificates • TÜV, SGS, BV International Certified Cooperative Testing Laboratories.

Compatibility List of BLH ESS and Inverters





BlauHoff

Add: Heemstraweg 123, 6651 KH, Druten- NL Tel: 0031 (0)854865755 E-mail: info@blauhoff.com Web: Blauhoff.com



victron energy



Voltronic Power



Sermetec



STUDER

GROWATT



















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