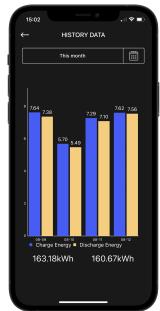
Li⁺HUB[®]

Li⁺HUB E series Battery Energy Storage System (BESS) is designed for home use. Its safest Lithium Iron Phosphate (LiFePO4) battery chemistry provides energy storage for solar self-consumption, time-of-use, and back up.

E series is convenient connection to any home or building. Its modular design achieves fast scalable to 10kWh, 15kWh, 20kWh, 25kWh, 30kWh by connecting up more MagicPack1.0 units.





Ultra Safe

So far the safest Lithium-ion chemistry available for maximum safety and longevity.

Easy Installation

The innovative, utility patent protected MagicPack1.0 realizes interchange on wall-mount and stackable installation.

Cloud Computing

With the LiHUB Energy cloud computing, you can monitor your solar energy in real time. Control your Li⁺HUB battery from anywhere with remote access and instant alerts.

Modular Design & Scalable

Start with a 5kWh MagicPack1.0 and scalable to 10kWh, 15kWh, 20kWh, 25kWh, 30kWh by connecting up more MagicPack1.0 units as energy demands grows.



Performance Specifications

Model	MagicPack1.0
Battery Chemistry	Lithium Iron Phosphate
Nominal Capacity	105 Ah
Nominal Voltage	51.2 VDC
Rated Energy	5.0 kWh
Scalable Units	Up to 6
Scalable Energy	5.0 kWh - 30.0 kWh
Standard Charge Voltage	57.6 V
Recommended Floating Charge Voltage	56 V
Charge Cut-off Voltage	58.4 V
Discharge Cut-off Voltage	48 V
Continuous Charge Current*1	60 A
Continuous Discharge Current* ¹	60 A
Continuous Discharge Power ^{*2}	3 kW
Peak Discharge Power* ³	4 kW
Number of Cycles	5,000 @ 90% DOD
Round Trip Efficiency	90%
Warranty	10 years limited warranty
*1 Suitable for individual unit, multi *2 Suitable for individual unit, multi	•

*3 Suitable for individual unit, multiple units do not exceed 12 kW.

Environmental Specifications

Charge Temperature	0°C to 45°C
Discharge Temperature	-10°C to 50°C
Relative Humidity (RH)	5% ~ 95%
	-20°C to 35°C
Storage Conditions	30% to 70% RH
	40% to 50% SOC
Maximum Elevation	2,000 m
Cooling	Natural convection
Noise @ 1m distance	<30 dBA

Mechanical Specifications		
681 mm/26.8 inch		
316.5 mm/12.5 inch		
205.5 mm/8.1 inch		
50 kg/110 lb		
IP 43		
Wall mount		
Stackable		
Indoor		

Compliance Information

	ANSI/UL 1973
Certificates (cell)	IEC62619:2017
Certificates (battery module)	EN 61000-6-1: 2019
	EN 61000-6-3: 2021
Shipping	UN38.3
	UN3480, Class 9

*4 Dual purpose is applicable.





E15 Wall Mount



Battery Energy Storage System (BESS) Model	E15
Battery Module	MagicPack1.0
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
Battery Module Rated Energy	5.0 kWh
Number of MagicPack1.0	3
BESS Rated Energy	15.0 kWh
Usable Energy* ¹	14.4 kWh
Continuous Output Power	8 kW
Peak Output Power* ²	10 kW
Nominal Voltage (single phase system)	51.2 V
Operating Voltage Range (single phase system)	48 V ~ 58.4 V
Input/Charge Voltage* ³	56.8 V ~ 57.6 V
Charge Cut-off Voltage	58.4 V
Output/Discharge Cut-off Voltage* ³	48V
Round Trip Efficiency	90%
Number of Cycles	5,000 @ 90% DOD
Warranty* ⁴	10 years limited warranty
Communication With Inverter	RS485, CAN
Operating Temperature	-10°C to 50°C
Relative Humidity (RH)	5% ~ 95%
Enclosure Protection	IP 43
Cooling	Natural convection
Altitude	2000 m
Noise @ 1m distance	<30 dbA
Dimensions (W x D x H)	685 x 205 x 1150 mm
	27 x 8.1 x 45.3 inch
Weight	156 kg/344 lb
Environment	Indoor* ⁵
Installation	Wall mount
Certificates (cell)	ANSI/UL 1973
	IEC62619:2017
Certificates (battery module)	EN 61000-6-1: 2017
	EN 61000-6-3: 2021
Shipping (battery module)	UN38.3
	UN3480, Class 9

*1 It is calculated by 90% depth of discharge (DoD) after BESS is fully charged at 25°C.

*2 The duration is 30 seconds.

*3 set up battery voltage value on inverter will be changed depend on battery management strategy. Please refer to the user manual for more information.

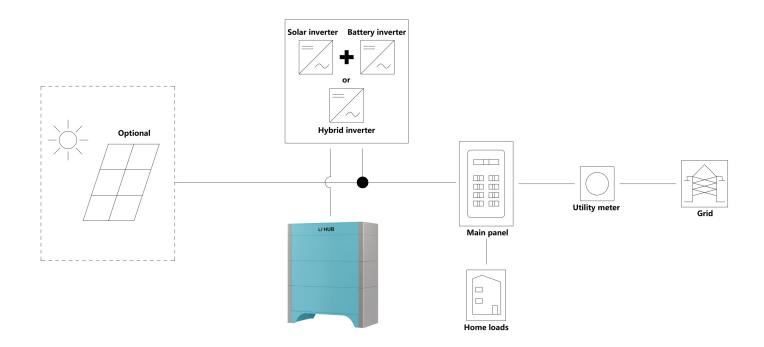
*4 For warranty details please refer to the LiHUB Energy home BESS Limited Warranty.

*5 Improper installation may compromise product warranty. The product should be installed by authorized installer.

Typical System Layouts

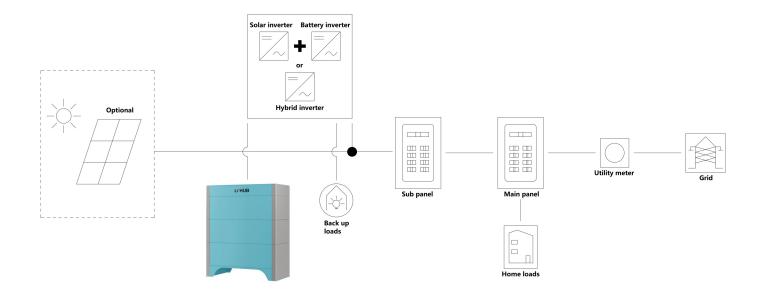
Rate Arbitrage

Inverter remains grid-connected but prioritizes the use of battery and renewable sources to run loads during high rate periods. Power supplied from battery will attempt to match the load for as long as possible during peak Time-of-Use (TOU).



Clean Backup

When grid service is interrupted, LiHUB BESS will begin anti-islanding, powering back up loads with solar power or battery stored power.



Compatible Inverters

Li⁺HUB E series BESS is designed to work with most 48V (hybrid) inverters available on the market. Below is a list of available inverters. If you can't find the inverter you are using on the list, please email us at info@lihub.com.cn for technical support.

Brand	Mode Configuration	Compatibility	
Schneider	XW Pro 6848 NA 120/240V, XW Pro 6848 NA 120V	Available	
Schneider	SW 4048 120/240, XW Pro 8.5kW 230V, SW 4048 230	Available	
Victron	EasySolar-II 48/3000/35-32 MPPT 250/70 GX		
	EasySolar-II 48/5000/70-50 MPP4 250/100 GX	Available	
	Multi RS Solar 48/6000, Inverter RS Smart Solar 48/6000		
	GW3000/3600/3600M/5000/5000M/6000/6000M-ES-20		
Goodwe	GW3600/5000/6000-SBP-20, GW3648D/5048D-ES	Available	
	GW3048/3648/5048-EM, GW3600S/5000S-BP		
SMA	Sunny Island 4548-US/6048-US	: !	
SIVIA	Sunny Island 4.4M/6.0H/8.0H	Available	
	SPH 3000/3600/4000/4600/5000/6000TL BL-UP, SPF 3000TL LVM-ES		
Growatt	SPF 3000/3500/5000 ES, SPF 3500/5000TL HVM-Pro		
	SPF 2000/3000TL HVM-48, SPF 6000T DVM-G2, SPF 3000T HVM-G2	Available	
	SPF 4/5/6/8KT HVM, SPF 4000/5000/6000/8000T DVM		
	SPF 4000/5000/6000/8000T DVM-MPV		
	SUN-3K/3.6K/5K/6K-SG04LP1-EU, SUN-3.6K/5K/6K-SG03LP1-EU		
Deye	SUN-5K/6K/7.6K/8K-SG01LP1-US/EU, SUN-5K/6K-SG04LP3-EU	Available	
	SUN-3.6K/5K/6K/7.6K/8K-SG05LP1-EU		
	SOL-ARK-5K-1P-N, SOL-ARK-8K-2P-L	Available	
SOL-ARK	SOL-ARK-5K/8K-1P-L, SOL-ARK-5K/8K/12K-2P-N		
MEGAREVO	R3KL1, R3K6L1, R4KL1, R4K6L1, R5KL1, R6KL1, R5/R6/R8/R10KLNA	Available	
	R3KL1-G2, R3K6L1-G2, R4KL1-G2, R4K6L1-G2, R5KL1-G2, R6KL1-G2		
	InfiniSolar V-3K/4K-48, InfiniSolar VII 6KW, InfiniSolar VIII		
Voltronic	InfiniSolar V4-3.6KW/5.6KW/6KW, InfiniSolar 2KW, Infini V 4 WP 6K	Available	
VOIUONIC	InfiniSolar Plus 3KW/5KW, InfiniSolar Plus II 3KW, InfiniSolar E 5.5KW		
	Infini VII WP 2KW/3KW/5KW/6KW, InfiniSolar WP LV 6KW		
SOEAD	HYD 3000/3680/4000/4600/5000/5500/6000-EP	Available	
SOFAR	ME 3000SP		