



High Voltage Lithium Battery System

Energy Cube LH75

576V~720V 43.2kWh~216kWh

TBB LH75 Energy Cube is a high voltage battery storage system based on lithium iron phosphate battery. Multiple LH75 lithium batteries are connected in series to form an EnergyCube for larger capacity, to meet longer power supporting duration demand. LH 75 Energy Cube is especially suitable for application scenario with limited installation spaces but requiring high power, long power backup time and long service life.

Its positive electrode materials are lithium iron phosphate. Battery cells are managed effectively by BMS with better performance, which can manage and monitor cells information including voltage, current and temperature.

- Comply with European ROHS, Certified SGS, employ non-toxic, non-pollution environment-friendly battery.
- Anode materials are lithium iron phosphate (LiFePO₄), safer with longer life span.
- Carries battery management system with better performance, possesses protection function like over-discharge, over-charge, over-current, abnormal temperature.
- Self-management on charging and discharging, single core balancing function.
- Intelligent design, integrated inspection module.
- Flexible configurations allow parallel and series connection of multi battery for longer standby time.
- Self-ventilation with lower system noise.
- Less battery self-discharge, and its recharging period can be up to 10 months during the storage.
- No memory effect so that battery can be charged and discharged shallowly.
- With wide range of temperature for working environment, -20°C ~ +55°C, and the circulation span and discharging performance are well under high temperature.
- Less volume, lighter weight.

Model NO.	LH75
Cell Technology	Li-ion(LFP)
Battery Module Capacity	3.6kWh / 75Ah
Battery Module Voltage (Vdc)	48
Battery Module Charge Voltage (Vdc)	54
Battery Module Charge Current (Normal)	37.5
Battery Module Discharge lower-Voltage (Vdc)	42
Battery Module Discharge Current (Normal)	37.5
Dimension(W*D*H, mm)	481*410*133
Communication	CAN
Pollution Degree (PD) / IP Grade	I / IP20
Weight(kg)	31.5
Standards	CE / UN38.3

Item	EnergyCube LH75-43.2	EnergyCube LH75-46.8	EnergyCube LH75-50.4	EnergyCube LH75-54.0
Nominal Voltage (V)	576	624	672	720
Work Voltage Range (V)	504~648	546~702	588~756	630~810
Battery Module Name	LH75	LH75	LH75	LH75
Module configuration	12 Series	13 Series	14 Series	15 Series
Nominal Energy (kWh)	43.2	46.8	50.4	54.0
Nominal Power (kW)	25.92	28.08	30.24	32.40
Max Power (kW)	43.2	46.8	50.4	54.0
Charging Current (A)	37.5	37.5	37.5	37.5
Discharge Current (A)	37.5	37.5	37.5	37.5
Dimension (mm)	601*510*1393*2	601*510*1393*2	601*510*1393*2	601*510*1393*2
Weight (kg)	507	538.5	570	601.5

Item	EnergyCube LH75-86.4	EnergyCube LH75-93.6	EnergyCube LH75-100.8	EnergyCube LH75-108.0
Nominal Voltage (V)	576	624	672	720
Work Voltage Range (V)	504~648	546~702	588~756	630~810
Battery Module Name	LH75	LH75	LH75	LH75
Module configuration	12 Series 2 parallel	13 Series 2 parallel	14 Series 2 parallel	15 Series 2 parallel
Nominal Energy (kWh)	86.4	93.6	100.8	108.0
Nominal Power (kW)	51.84	56.16	60.48	64.80
Max Power (kW)	86.4	93.6	100.8	108.0
Charging Current (A)	75	75	75	75
Discharge Current (A)	75	75	75	75
Dimension (mm)	601*510*1393*4	601*510*1393*4	601*510*1393*4	601*510*1393*4
Weight (kg)	1014	1077	1140	1203

Item	EnergyCube LH75-129.6	EnergyCube LH75-140.4	EnergyCube LH75-151.2	EnergyCube LH75-162.0
Nominal Voltage (V)	576	624	672	720
Work Voltage Range (V)	504~648	546~702	588~756	630~810
Battery Module Name	LH75	LH75	LH75	LH75
Module configuration	12 Series 3 parallel	13 Series 3 parallel	14 Series 3 parallel	15 Series 3 parallel
Nominal Energy (kWh)	129.6	140.4	151.2	162.0
Nominal Power (kW)	77.76	84.24	90.72	97.20
Max Power (kW)	129.6	140.4	151.2	162.0
Charging Current (A)	112.5	112.5	112.5	112.5
Discharge Current (A)	112.5	112.5	112.5	112.5
Dimension (mm)	601*510*1393*6	601*510*1393*6	601*510*1393*6	601*510*1393*6
Weight (kg)	1521	1616	1710	1805

Item	EnergyCube LH75-172.8	EnergyCube LH75-187.2	EnergyCube LH75-201.6	EnergyCube LH75-216.0
Nominal Voltage (V)	576	624	672	720
Work Voltage Range (V)	504~648	546~702	588~756	630~810
Battery Module Name	LH75	LH75	LH75	LH75
Module configuration	12 Series 4 parallel	13 Series 4 parallel	14 Series 4 parallel	15 Series 4 parallel
Nominal Energy (kWh)	172.8	187.2	201.6	216.0
Nominal Power (kW)	103.68	112.32	120.96	129.60
Max Power (kW)	172.8	187.2	201.6	216.0
Charging Current (A)	150	150	150	150
Discharge Current (A)	150	150	150	150
Dimension (mm)	601*510*1393*8	601*510*1393*8	601*510*1393*8	601*510*1393*8
Weight (kg)	2028	2154	2280	2406