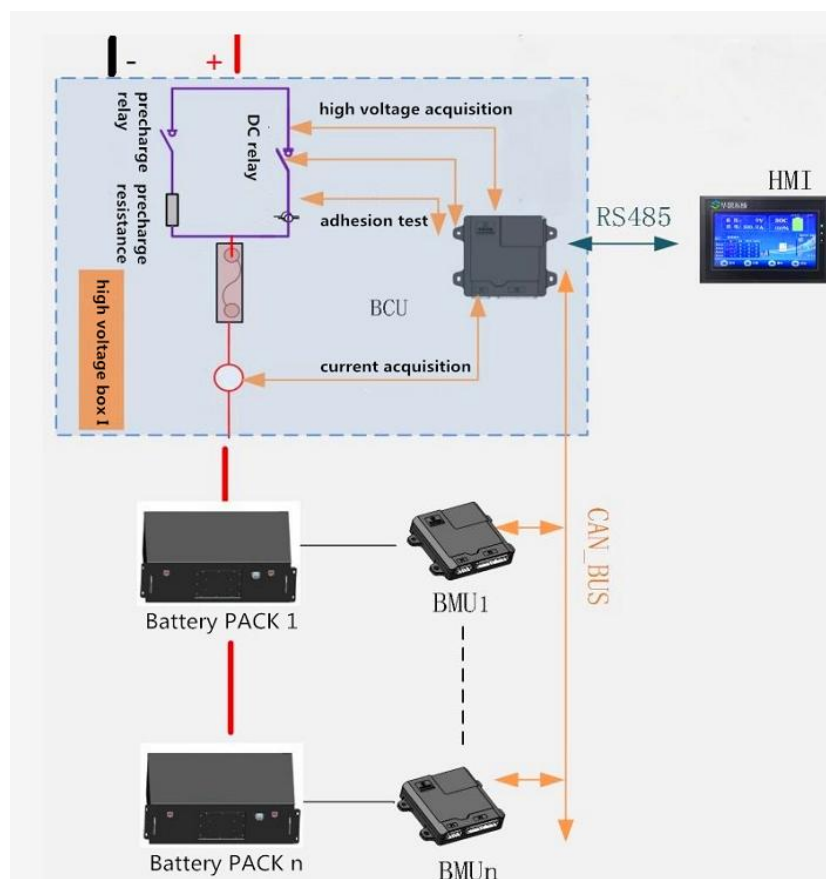


Product Features

- Applied to home energy storage, communication base station, back-up power.
- CAN interface for communication with inverter.
- Double RS485 interface, support parallel communication.
- Automatic pre-charge circuit.
- Intelligent electricity calculation, data storage, protection of over-current, over-charge, over-discharge over-temp, short circuit and insufficient electricity.
- Compatible with battery protocols (eg. PYLON) and leading inverters (eg. Goodwe、Sunyink、Growatt).
- The 8-bit dial switch can distinguish the master and slave addresses. The master monitors up to 15 slave batteries.
- Excellent current limiting design, support battery parallel for higher capacity requirements.
- Long cycle life, wide working temp range, can replace lead-acid battery.



System topology

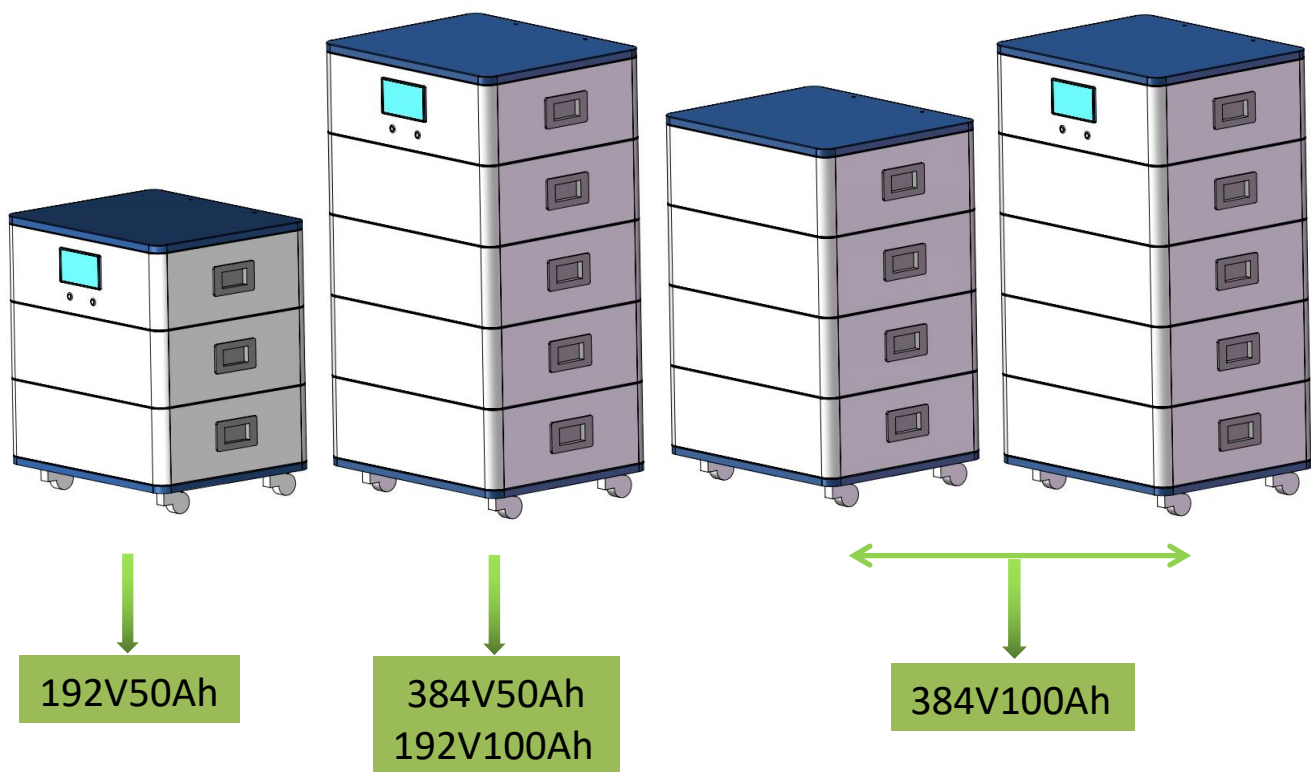
Technical Specifications

GENERAL INFORMATION				
Specifications	LD-192050-DD01	LD-192100-DD01	LD-384050-DD01	LD-384100-DD01
Battery Type	LiFePO4			
Nominal Voltage	192 VDC	192 VDC	384 VDC	384 VDC
Capacity（Ah）	50	100	50	100
Usable Capacity@C2, 25℃（Wh）	9600	19200	19200	38400
Operating Voltage Range	156VDC – 216 V DC		312VDC – 432 V DC	
Charge Temperature	0℃ to 60℃@65±20% Relative Humidity			
Discharge Temperature	-20℃ to 60℃@65±20% Relative Humidity			
Cycle Life @ 100% DoD	> 3500 cycles（4800Wh @C2, 25℃）			
Cycle Life @ 80% DoD	> 5000 cycles（3840Wh @C2, 25℃）			
Cycle Life @ 70% DoD	> 7000 cycles（3360Wh @C2, 25℃）			
Dimensions (mm) （W x D x H）	550*450*647	550*450*1011	550*450*1011	550*450*829 +550*450*1011
Weight (kg)	230	230	230	206+230
Max Charge Current (A)(25℃)	25A	50A	25A	50A
Max Discharge Current (A)(25℃)	50A	100A	50A	100A
Protection board parameters				
Over-charge protection	3.65V			
Over-charge release	3.40V			
Under-discharge protection	2.60V			
Under-discharge release	2.80V			
Over-current protection	1.1C			
Over-current delay	10 S			
Charging over-temperature protection	55℃			
Charging under-temperature protection	0℃			
Discharge over-temperature protection	60℃			

Discharge under-temperature protection	-20℃
Balance current	≤200mA
Balance Condition	≥3.35V, voltage difference 50mV
Other parameters	
Self-discharge Rate	< 3% per month
IP-Protection	IP51
Safety certification	UN38.3
Communication port with inverter	CAN or RS485

Note: The product parameters in the above table will be upgraded and optimized in the future, and will not be notified separately

Appearance diagram:



Precautions for use

- Before using the product, please read the product specification carefully to understand the use parameters and application scope of the product; the company does not assume any responsibility for product damage or indirect losses caused by improper use of the product, over-range use, etc.
- The battery pack can only be connected in parallel, not in series;
- Do not short-circuit battery;
- Forbid to reverse the positive and negative pole;
- Prohibit use beyond the current range;
- Forbid to use battery pack over 60℃, otherwise, the battery pack will overheat, which will affect battery performance and shorten battery life;
- Long-term storage, check the power in time at least every 3 months. When the battery power is less than 10%, please charge it to more than 30%(soc≥30%) in time;
- 15~40℃ charging temperature is suggested, which is beneficial to have better battery performance;
- Forbid to throw the battery pack into fire or heat it;
- It is forbidden to directly immerse, the battery in water, and it is forbidden to wash the outside;
- If there is a problem, please contact the manufacturer in time, and it is forbidden to disassemble the battery pack without permission;
- Manufacturer reserve the right to alter or amend the design, model and specification without prior notice.