

# LEOCH BU512V100(512V100Ah)

## BU512V100



### LEOCH Provides Safe and Efficient LFP Battery Solutions.

LEOCH BU series adopt high safety LFP cell, with intelligent BMS management system independently developed by LEOCH, safe and reliable, excellent performance, stability and reliability, suitable for three-phase UPS backup system.

#### Features

- Safest lithium battery technology
- Eco-friendly
- 20 Years Designed service life
- Can/RS485 Communication output for monitoring
- Achieve up 32 BMU in cascade communication
- Internal cell balancing, Passive equalization, the maximum equalization current up to 300 mA
- High-precision cell voltage and temperature acquisition:  $\pm 3$  mV,  $\pm 1^\circ\text{C}$
- Fan control circuit and interface, realize heat dissipation inside the module

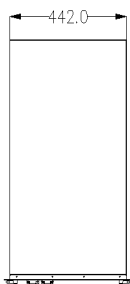
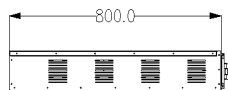
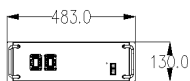
#### PACK Style



#### Performance data

Time(min)	30	60	120	180	300
Constant Power(kw)	98	49	24.5	16.4	9.8
Constant Current(A)	200	100	50	33.3	20

#### Size



#### System specifications

Case Material	SPCC
Cell Type	Prismatic LiFePO <sub>4</sub>
Terminal Type	M8
IP Grade	IP21

#### Basic performance

Nominal Voltage	512V
Nominal Capacity	100Ah
Energy	51.2KWh
Self Discharge	$\leq 2\%$ /Month
Cell Capacity	100Ah
Cycle Life	2500 times(1C/1C)
Size	1000*600*2000mm
Weight	640 Kg

#### Charge performance

Rated Charge Current	50A
Maximum Charge Current	100A
Rated Charge Voltage	544-552V
Balancing Voltage	$> 544$ V

#### Discharge performance

Max Output Power	98KW
Standard Discharge Time	98KW@30min
Rated Discharge Cut-off Voltage	448V
Min Discharge Cut-off Voltage	424V
Short Circuit Current	Approx.4500A

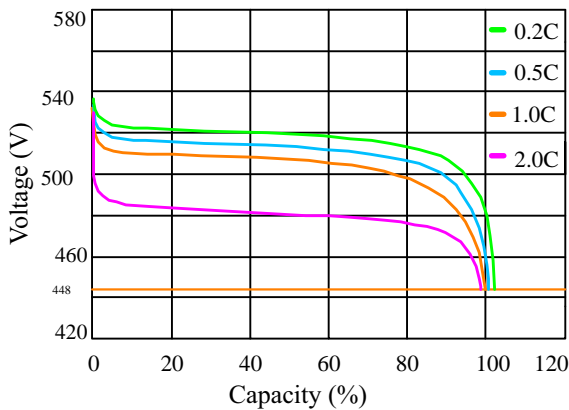
#### Temperature and humidity

Discharge Temperature	-20-65 $^\circ\text{C}$
Charge Temperature	0-45 $^\circ\text{C}$
Storage Temperature	-5-35 $^\circ\text{C}$
Transportation Temperature	-20-65 $^\circ\text{C}$
Operating Humidity	$\leq 95\%$ R.H

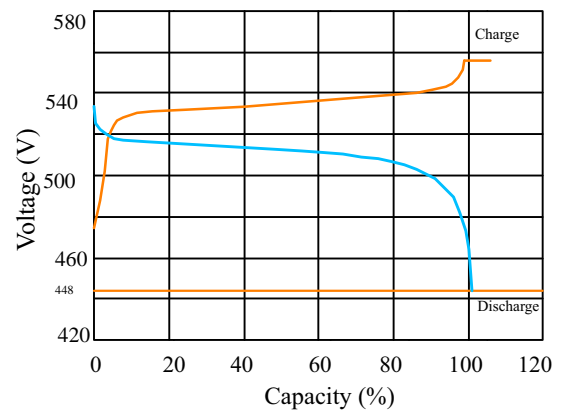
#### Other

Communication	CAN/RS485/LAN
Dry Contact	Yes
System Parallels	$\leq 15$
Screen	Optional
Thermal Management	Air Cooling

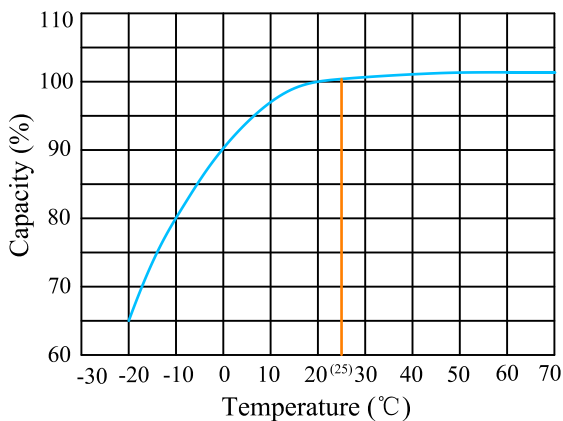
## Discharge Performance at 25°C



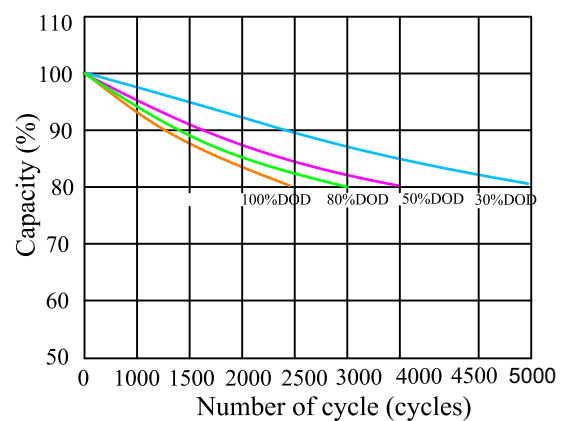
## Charge and Discharge at 25°C, 0.5C



## Temperature effects on capacity at 1C

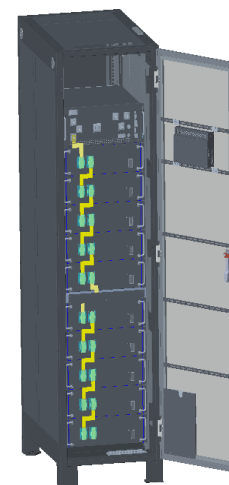


## Cycle life with DOD at 25°C, 1C/1C



## Cautions

1. Do NOT short circuit, crush or disassemble.
2. Do NOT heat or incinerate.
3. Do NOT immerse in any liquid.
4. Store at 50% capacity. Recharge every 6 months. The storage area should be clean, cool, dry and ventilated.
5. Disconnect charging source prior to connecting or disconnecting battery terminals.
6. Do NOT dispose of batteries in a fire as they can explode.
7. Do NOT open, alter, or mutilate batteries. Released electrolyte is harmful to skin and eyes. It may be toxic.
8. Do NOT mix different types and brands of lithium-ion batteries.
9. Do NOT dispose in trash, follow local regulations and manufacturer's instruction.
10. See installation instructions before connecting to the supply.
11. The battery cabinet receives power from more than one source. Disconnection of all DC sources is required to De-energize this unit before installing or servicing. Wait 5 minutes before opening the unit.
12. Do NOT install on or over combustible surfaces
13. Refer to manual before servicing
14. Do NOT touch bare terminals.



Rack BU512V100(S)  
BU512V100--without SBMS, BU512V100(S)-with SBMS