

# LEOCH PU512V100(512V100Ah)

## PU512V100



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

LEOCH PU 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
- 10 Years Designed service life
- Can/RS485 Communication output for monitoring
- Achieve up to 26 BMU in cascade communication
- Internal cell balancing, Passive equalization, the maximum equalization current up to 200 mA
- High-precision cell voltage and temperature acquisition:  $\pm 10$  mV,  $\pm 1^\circ\text{C}$
- Fan control circuit and interface, realize heat dissipation inside the module

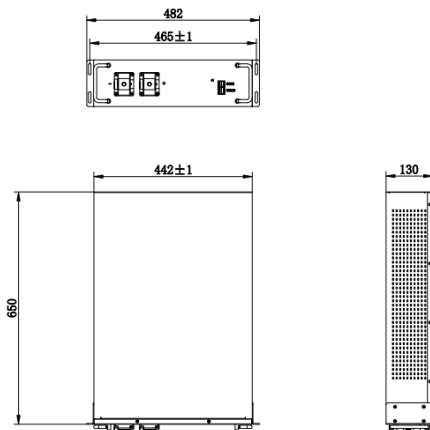
#### PACK Style



#### Performance data

Time(min)	10	15	20	30	60
Constant Power(kw)	225	186	138.5	96.6	49.5
Constant Current(A)	490	415	307	216	103

#### Size



#### System specifications

Case Material	SPCC
Cell Type	Prismatic LiFePO <sub>4</sub>
Terminal Type	M10
IP Grade	IP20

#### Basic performance

Nominal Voltage	512V
Nominal Capacity	100Ah
Energy	51.2KWh
Self Discharge	$\leq 3\%$ /Month
Cell Capacity	100Ah
Cycle Life	3000 times(1C/1C)
Size	1000*600*2000
Weight	655Kg

#### Charge performance

Rated Charge Current	50A
Maximum Charge Current	100A
Rated Charge Voltage	448-552V
Balancing Voltage	$> 544$ V

#### Discharge performance

Max Output Power	225KW@10min
Standard Discharge Time	186KW@15min
Rated Discharge Cut-off Voltage	448V
Minimum Discharge Cut-off Voltage	424V

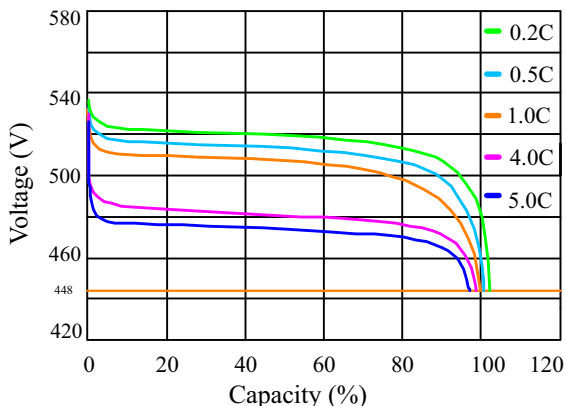
#### Temperature and humidity

Discharge Temperature	-10-55°C
Charge Temperature	0-45°C
Storage Temperature	-20-60°C
Transportation Temperature	-20-60°C
Operating Humidity	$\leq 95\%$ R.H

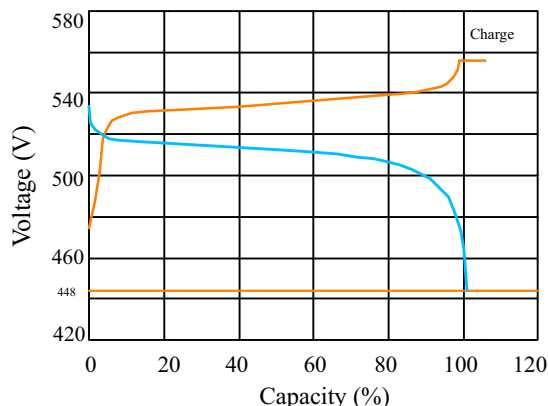
#### Other

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

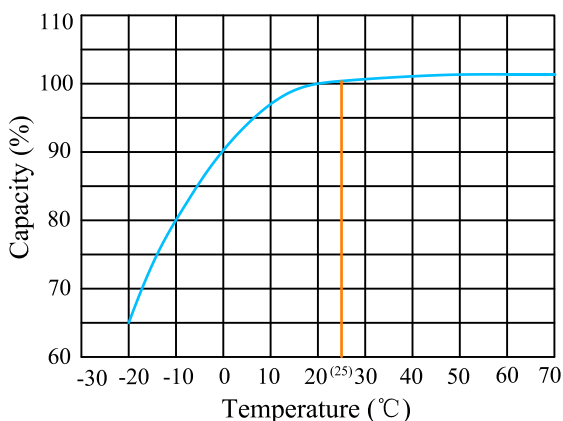
## Discharge Performance at 25°C



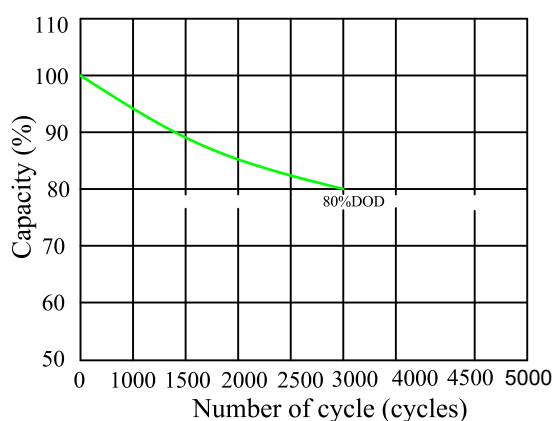
## Charge and Discharge at 25°C, 0.5C



## 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 PU512V100(S)\*-2\*  
S-with HMI , No S without HMI  
2-Two wire system, No 2 Three -wire system