



### LIVEN Series-LiFePO4

High performance, completely maintenance-free, low self-discharge.

Floating & standby use: up to 10 years @25°C.

100% precise quality testing, stable quality and high reliable performance.

Uniform output voltage in all the discharge curve.

Provide full nominal capacity, even at high currents.

Energy density: up to 130Wh/kg.

Capacity density: up to 145Ah/kg.

Suitable for standby power and energy storage power use.

Long storage time.

Cycle use: Up to 4500 cycles @25°C.

### Application:

- Telecommunications
- Uninterrupted Power Supply (UPS)
- DC Power Supply
- Electric Power System (EPS)
- Power Plants FV
- Wind Power Supply

### Dimensions:

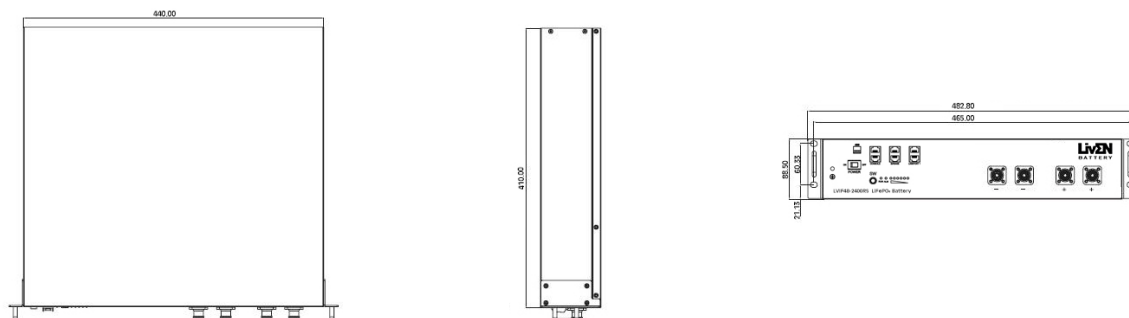
Length	442±3mm (17.40in)
Width	420±3mm (16.54in)
Height	(2U) 88,5±3mm (3.48in)



### Specification:

<b>Nominal Voltage</b>	48.0V
<b>Nominal Capacity</b>	50.0Ah @0.2C @25°C
<b>Weight</b>	Approx. 24Kg ±1kg (52.91lbs)
<b>Energy</b>	2,400.0Wh @0.2C @25°C
<b>Usable Energy</b>	2,200.0Wh @0.2C @25°C
<b>Discharge</b>	
<b>Normal Current</b>	25A
<b>Maximum Current</b>	50A
<b>Peak Current</b>	100A @15s
<b>Nominal Float Voltage</b>	48.0V ±0.2V
<b>Cut-Off Voltage</b>	45.0V ±0.2V
<b>Charge</b>	
<b>Charge Voltage Range</b>	52.5~54.0V ±0.2V
<b>Charge Current</b>	≤ 25A
<b>Maximum Current</b>	50A
<b>Peak Current</b>	100A @15s
<b>Charge Mode</b>	CC/CV, use special LiFePO4 Charger
<b>Operation Temperature Range <sup>1</sup></b>	Discharge: -10°C~50°C Charge: 0°C~50°C
<b>Storage Temperature Range</b>	-20°C~60°C 15°C~30°C (Long term storage) (Capacity 80%)
<b>Humidity Range <sup>1</sup></b>	Charge/Discharge: RH= 85% <sup>2</sup> Storage: RH= 50% <sup>2</sup>
<b>BP Protection - BMS Features <sup>3</sup></b>	OVP, UVP, SC, TEMP, BF, COM
<b>Battery Communications</b>	RS485, CAN, MOD BUS Protocol (Optional), Other available
<b>Parallel Connection</b>	
<b>N. Modules</b>	≤8 modules (max. in 1 Battery group)
<b>Before Connect</b>	The Voltage difference between each unit should be ≤ 0.3V
<b>After Connect</b>	Current should be less than working Current of any module
<b>Cooling type</b>	Natural Cooling
<b>IP Rating</b>	IP20
<b>Certifications</b>	UN38.3, CE, IEC62619, IEC62040, IEC62477, IEC61000

### Outer Dimensions:



(1) When the environment temperature is higher than 45°C, please pay attention to ventilation and heat rejection.

(2) When humidity is higher than 85%, pay attention to protect, easily oxidized components note sealed.

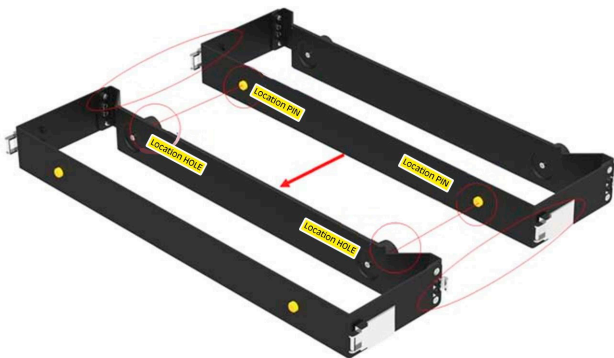
(3) OVP=Over charge protection; UVP=Over discharge protection; SC=Short-circuit; TEMP=Temp. levels protection; BF=Balanced Function; COM=Communication Function

## Battery Front Interface



- |     |                 |      |                       |
|-----|-----------------|------|-----------------------|
| (1) | SOC             | (7)  | ADD                   |
| (2) | Alarm           | (8)  | Dry Contact / Console |
| (3) | Run             | (9)  | A/B RS485             |
| (4) | Start           | (10) | Link Port 0/1         |
| (5) | Power Switch    | (11) | Power Terminals (-)   |
| (6) | Grounding Point | (12) | Power Terminals (+)   |

## Installation proposal with Brackets



(Note) All above information shall be changed without prior notice. LIVEN Battery reserves the right to explain and update the latest information.