



### LIVEN LVIF Solar Series

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: >6000 cycles @25°C.

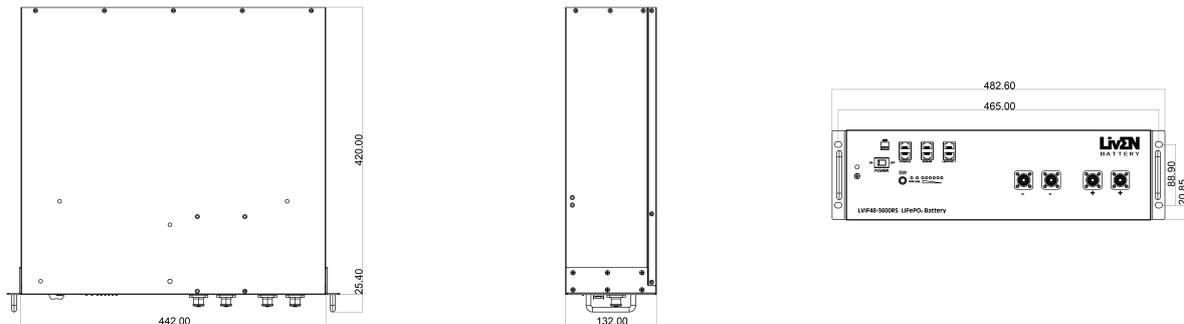
### Applications:

- 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 | (3U) 132±3mm (5.20in) |

### Technical Drawings:



### Specifications:

|  |   |
|--|---|
| <b>Nominal Voltage</b>                           | 48.0V   |
| <b>Nominal Capacity</b>                          | 74.0Ah @0.2C @25°C  |
| <b>Weight</b>                                    | Approx. 32Kg ±1kg (70.55lbs)                                  |
| <b>Energy</b>                                    | 3,552.0Wh @0.2C @25°C   |
| <b>Usable Energy</b>                             | 3,200.0Wh @0.2C @25°C   |
| <b>Discharge</b>                                 |   |
| <b>Normal Current</b>                            | 37A   |
| <b>Maximum Current</b>                           | 74A   |
| <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>                      | 52.5~53.5V ±0.2V  |
| <b>Charge Current</b>                            | ≤ 37A   |
| <b>Maximum Current</b>                           | 74A   |
| <b>Peak Current</b>                              | 100A @15s   |
| <b>Charge Mode</b>                               | CC/CV, use special LiFePO4 Charger                            |
| <b>Operation Temperature Range</b> <sup>1</sup>  | Discharge: -10°C~50°C<br>Charge: 0°C~50°C                     |
| <b>Storage Temperature Range</b>                 | -20°C~60°C<br>15°C~30°C (Long term storage)<br>(Capacity 80%) |
| <b>Humidity Range</b> <sup>1</sup>               | Charge/Discharge: RH= 85% 2<br>Storage: RH= 50% 2             |
| <b>BP Protection - BMS Features</b> <sup>3</sup> | OVP, UVP, SC, TEMP, BF, COM                                   |
| <b>Battery Communications</b>                    | RS485, CAN, MOD BUS Protocol (Optional),<br>Other available   |
| <b>Parallel Connection</b>                       |   |
| <b>N. Modules</b>                                | ≤16 modules (max. in 1 Battery group)                         |
| <b>Before Connect</b>                            | The Voltage difference between each unit<br>should be ≤ 0.3V  |
| <b>After Connect</b>                             | Current should be less than working Current<br>of any module  |
| <b>Cooling type</b>                              | Natural Cooling   |
| <b>IP Rating</b>                                 | IP20  |
| <b>Certifications</b>                            | UN38.3, CE, IEC62619, IEC62040,<br>IEC62477, IEC61000         |

(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.

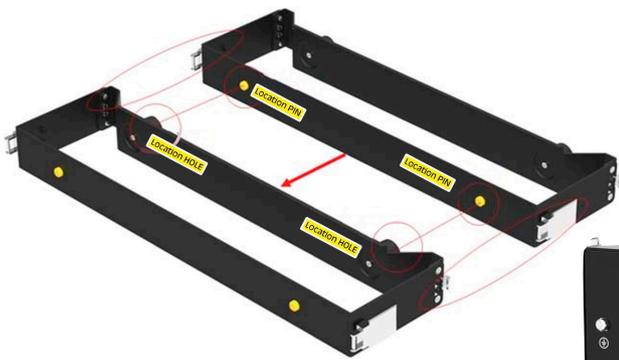
(3) OVP=Over charge protection; UVP=Over discharge protection; SC=Short-circuit; TEMP=Temp. levels protection; BF=Balanced Function; COM=Communication Function

**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.