LIVEN BATTERY

48V 50.0Ah

LVIF48-2400RS

LiFePO4 Lithium Battery – Rack

LIVEN LVIF Solar Series

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

Floating & standby use: up to10 years @25ºC.

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.

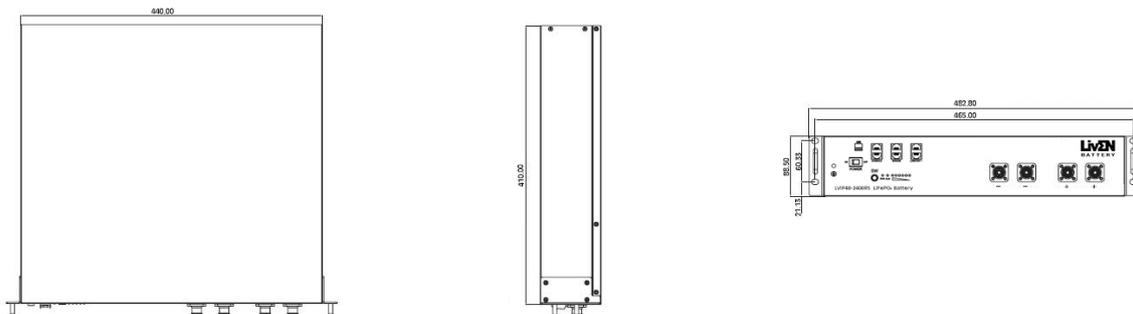Long storage time.

Cycle use: >6000 cycles @25ºC.

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	(2U) 88,5±3mm (3.48in)

Specifications:

Nominal Voltage		48.0V
Nominal Capacity		50.0Ah @0.2C @25°C
Weight		Approx. 24Kg ±1kg (52.91lbs)
Energy		2,400.0Wh @0.2C @25°C
Usable Energy		2,200.0Wh @0.2C @25°C
Discharge		
	Normal Current	25A
	Maximum Current	50A
	Peak Current	100A @15s
	Nominal Float Voltage	48.0V ±0.2V
	Cut-Off Voltage	45.0V ±0.2V
Charge		
	Charge Voltage Range	52.5~54.0V ±0.2V
	Charge Current	≤ 25A
	Maximum Current	50A
	Peak Current	100A @15s
	Charge Mode	CC/CV, use special LiFePO4 Charger
Operation Temperature Range [1]		Discharge: -10°C~50°C Charge: 0°C~50°C
Storage Temperature Range		-20°C~60°C 15°C~30°C (Long term storage) (Capacity 80%)
Humidity Range [1]		Charge/Discharge: RH= 85% [2] Storage: RH= 50% [2]
BP Protection - BMS Features [3]		OVP, UVP, SC, TEMP, BF, COM
Battery Communications		RS485, CAN, MOD BUS Protocol (Optional), Other available
Parallel Connection		
	N. Modules	≤16 modules (max. in 1 Battery group)
	Before Connect	The Voltage difference between each unit should be ≤ 0.3V
	After Connect	Current should be less than working Current of any module
Cooling type		Natural Cooling
IP Rating		IP20
Certifications		UN38.3, CE, IEC62619, IEC62040, IEC62477, IEC61000

Technical Drawings:

[1] *When the environment temperature is higher than 45ºC, please pay attention to ventilation and heat rejection.*

[2] *When humidity is higher than 85%, pay attention to protect, easily oxidized components note sealed.*

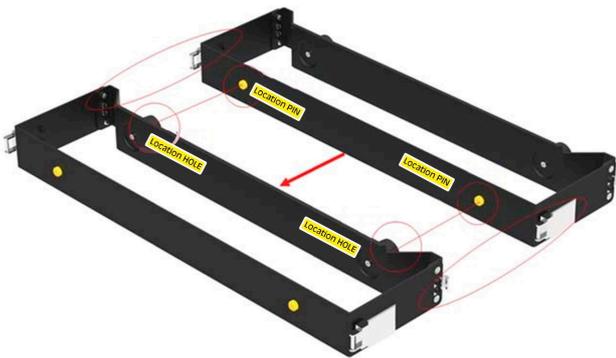[3] *OVP=Over charge protection; UVP=Over discharge protection; SC=Short-circuit; TEMP=Temp. levels protection; BF=Balanced Function; COM=Communication Function*

ISO 9001   ISO 14001

Living Energy

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

V06 01/24