

STO Technologies

Your Way Toward Safe Energy Storage

LiFePO4 Battery

BUILT WITH
EVE

12.2 KWh

14.8 KWh

Up to 6000 Life Cycle

3 Years Warranty



Why STO

With the lack of the electricity offered by the government in Lebanon and the high cost of that offered by the private sector through their generators, the LiFePO₄ (LFP) batteries are considered the optimal choice to be combined with solar systems to offer an alternative.

STO provides two models of LFP batteries (12.2KWh-48V, 14.8KWh-48V) that are made in China and assembled in Lebanon. They are based on EVE cells. Our battery is equipped with a smart programmable BMS that controls the charging and discharging processes. It provides a protection against a wide range of hazards (overcharging, over discharging, temperature, short-circuits etc.) Through our two models we offer the best quality with a competitive price.

The battery is equipped with a display that shows the voltage of the pack, the charging/discharging current, the percentage of the capacity, and the internal temperature.



General Remarks

1. On the contrast of the Lead-Acid battery, this battery needs no periodic maintenance.
2. Its internal state can be monitored by a mobile app through a Bluetooth connection.
3. Battery should be kept in dry, clean and well-ventilated place.
4. The battery should be stored in half SOC. It should be charged once every six months if it is out of use.
5. Never knock, or make pressure specially on the front face of the battery where the display and the logo appear.
6. Never connect the positive and the negative terminals of the battery (short-circuiting), otherwise serious damage and harmful consequences occur.



Battery Specifications

Parameter	STO-LFP48240WSB	STO-LFP48290WSB
Nominal voltage	51.2V	51.2V
Working voltage	40-58.4V	40-58.4V
Capacity Range	230 - 240 Ah	280 - 290 Ah
Energy Range	11.7 -12.2 kWh	14.3 -14.8 kWh
Core Material	Lithium Iron Phosphate	
Life Cycle	5000 Cycles @70% DOD	6000 Cycles @80% DOD
Max Charging & Discharging current	100A	
Recommended Max continuous Charging & Discharging Current	80A	
Charging temperature range	0-45° C	
Discharging temperature range	-20-60° C	
Installation mode	Wall Mounted	
Battery protection	Over Charging &Discharging Over Temperature Over Current / short circuit	
Dimensions (DxWxH)	26.5 x 42 x 50 cm	26.5 x 42 x 64 cm
Weight	~ 75 kg	~ 94 kg
Life Span	5-10 years	
Storage time Without Charging	6 Month	
Recommended operating temperature range	0-45° C	
Recommended storage temperature range	-10-40° C	
Warranty	3 Years	

Please contact our well-trained staff for any further information or in case of any required maintenance.
The warranty can be extended upon request.