

STO Technologies

Your Way Toward Safe Energy Storage

LiFePO4 Battery

BUILT WITH
EVE

5.88 KWh

8.7 KWh

5000 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 three models of LFP batteries (8.7KWh-48V, 5.88KWh-48V and 5.88KWH-24V) that are made in China and assembled in Lebanon. They are based on EVE cells. EVE is a major company that dominates around one third of the market worldwide. 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 three models we offer the best quality with a competitive price.



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-LFP24230WS	STO-LFP48170WS	STO-LFP48115WS
Nominal voltage	25.6 V	51.2V	51.2V
Working voltage	20-29.2V	40-58.4V	40-58.4V
Capacity Range	210-230 Ah	160-170 Ah	105-115 Ah
Energy Range	5.37- 5.88 kWh	8.19 - 8.7 kWh	5.37- 5.88 kWh
Core Material	Lithium Iron Phosphate		
Life Cycle	5000 Cycles @70% 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 (LxWxD)	45 x 41 x 22.5 cm	45 x 41 x 22.5 cm	45 x 41 x 22.5 cm
Weight	~ 40 kg	~ 60 kg	~ 40 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.