

## General Information

The SDA10-48100, 5.12kWh, 48 V lithium-ion phosphates are the new energy storage on the market. This battery module adopts the high performance BMS, which has the protective function of current, voltage and temperature. It can be used to support reliable power for various types of equipment and systems. The SDA10-48100 is a self-designed and self-manufactured LFP cell, pack and rack to ensure the highest safety. The battery has a **capability of more than 5000 cycles with 90% Depth of Discharge** for over 10 years of life time.

This lithium-ion battery has an excellent rate of discharge performance, which enables LFP battery with small capacity to meet large current discharge and is compatible with most universal hybrid inverters such as **Growatt, Victron, Sofar, Deye** etc. Thanks to its modular and scalable design, this battery can be expanded to meet future energy requirements.

## Specification

• Nominal Capacity (kWh):	5.12 kWh
• Depth of Discharge:	90%
• Usable Capacity (kWh):	4.6 kWh
• Cycle Life:	≥ 5000 @ 25°C
• Charge Voltage (V):	54 – 56.4 V
• Discharge Voltage (V):	45 - 48 V
• Nominal Voltage (V):	51.2 V
• Maximum Parallel Quantity (Pcs):	16
• Charge/Discharge Current (A):	Recommend 50 A (0.5C), Max 100 A (1C)
• Communication:	RS485, CAN
• Operating Temperature:	Charge -5°C~ +45°C, Discharge -20°C ~ 50°C
• Recommend Operating Temp:	Charge +15°C ~+35°C, Discharge +15°C ~+35°C
• Storage Temperature:	-20°C ~ +35°C
• Humidity:	5% - 95%
• Altitude:	≤ 4000 m
• Weight (Kg):	41 ± 1 Kg
• Dimension (W * H * D):	442 * 133 * 420 mm
• Certificate:	TUV (IEC 62619) /CE-EMC/UN38.3
• Life Span:	10 Years/6000 Cycles
• Warranty:	5 Years



## Features

- Compact Size and light weight
- Parallel capability of up to 16 Units
- The Shoto LifePO4 battery is highly robust and long lasting
- Adopting the self-cooling method, the system has extremely low noise
- Good temperature characteristics
- The system can seamlessly turn on after the public electricity fails
- Long battery life (up to 3 times the battery life of a conventional battery)
- High efficiency between charging and discharging