

EVO 5K Pack



Introduction

The Soluna EVO 5K Pack is an LiFePO₄ lithium battery product with BMS (battery management system). It is a battery module with CAN / RS485 communication, under-voltage, over-voltage, over-current, over-temperature, under-temperature protection functions. It has the characteristics of high energy density, long life, safety, wireless monitoring, and so on, and is your trustworthy green environmental product.

Features

- Excellent safety performance (multiple layers of protection)
- Long cycle life
- Support for CAN / RS485-communication
- Scale up to 32 units in parallel
- Remote monitoring, debugging, firmware updates
- Enhanced safety-DC breaker integrated, automatic release device for battery output
- Over temperature, over current, over discharge, over charge and short circuit protection etc.

Compliance

- UL1973
- UL9540A
- UN38.3
- ROHS
- FCC
- CE
- IEC62619

MECHANICAL SPECIFICATIONS

Industry Reference	19 Inch Rackmount 3U
Width (mm)	442
Depth (mm)	498
Height (mm)	132.5
Weight (kg)	43.5
Cell(s)	16S1P
Chemistry	LiFePO ₄

NOTE:

Dimensions have a ± 2 mm (0.08 in) tolerance. Weights may vary.

ELECTRICAL SPECIFICATIONS

Nominal Ah capacity(0.5C)	100
Nominal Wh energy (0.5C)	5120
Nominal voltage(Vdc)	51.2
Max.Charge Voltage(Vdc)	56.8
Suggested Low Voltage Cutoff (Vdc)	48
Nominal charge & discharge current (Adc)	50
Max. Continuous Charge Current (Adc)	75
Max. Continuous Discharge Current (Adc)	100
Max Peak Current (Adc)	200
Max Continuous Discharge Rate (kW)	5.12
Cycle life	8000
Maximum DOD	90%
Self-Discharge (25°C)	3% per month
Operating Temperature(°C)	-10~+50
Storage Temperature(°C)	-20 to 35 up to 6 months
	> 35 less than 1 month