

## EVO 5K Pack



### Introduction

The Soluna EVO 5K Pack is an LiFePO<sub>4</sub> 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 160 battery units in parallel
- Integrated 360W heating pad inside, which allows users to charge and discharge under cold weather conditions.
- 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 <sub>4</sub>

#### 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
Recommend DOD	80%
Maximum DOD	90%
Self-Discharge (25°C)	3% per month
Operating Temperature(°C)	-20~+50 With heater pad
Storage Temperature(°C)	-20 to 35 up to 6 months
	> 35 less than 1 month