

# LiFe4838P

## Lithium Battery Specifications



BUILT IN A QUALITY CONTROLLED ENVIRONMENT TO YOUR NEEDS.

Have the best of both worlds with quality cells and increased storage capacity. Suited for many applications, this battery will assist with your all your energy projects.

### Product Highlights:

- **NEW!** Generation II BMS
- **NEW!** Advanced Status LED
- **15% Increased** Capacity
- Multiple Install Options
- Safe Lithium Chemistry
- Compatible with AC & DC coupled Systems
- Mechanically Robust Cylindrical Cells
- Ongoing Local Support

### Electrical Characteristics

Nominal Voltage	51.2V
Operating Voltage	40V to 58.4V
Nominal Capacity	3.8kWh / 74.2Ah
Usable Energy Capacity	3.8kWh <sup>1</sup>
Round-Trip Efficiency	>96%
Maximum Continuous Charge Current	63A
Maximum Continuous Discharge Current	63A
Minimum Peak Current Rating (Discharge)	75A for at least 3.5s, 220A for at least 1.5s
Maximum Peak Current (Discharge)	85A (<6.5s), 280A (<150ms)
Rated DC Power	3.2kW
Short Circuit Current	2.5kA
Alarm Output	Normally Closed contact, voltage free, 60V/100mA(max)
Expected Life @25°C	> 10 years when used as per warranty terms <sup>2</sup>

### Operating Conditions

Operating Temperature Range - Charging	4° to 51°C
Operating Temperature Range - Discharging	-6° to 56°C
Recommended Operating Temperature	20° to 30°C
Optimal Storage Temperature Range	0° to 35°C
Operating Humidity	0% to 85% Non Condensing
Operating Altitude	< 2000m <sup>3</sup>
Cooling	Natural convection
Parallel connection	Unlimited
Series connection	Not Permitted

## Physical Characteristics

Battery Dimensions	635mm D x 434mm W x 88mm H
Lithium Composition	Lithium Ferro Phosphate (LiFePO <sub>4</sub> or LFP)
Terminal Connections	Amphenol SurLok Plus 120A
Weight	43kg

## Certification & Warranty

Safety	Battery Cell: UL 1642, IEC 62619:2017 Battery Pack: IEC 62619:2017, UN38.3, IEC 61000-6-3:2020, IEC 62368-1:2018
IP Rating	IP40
Warranty	10 Years <sup>2</sup>

1. *The capacity is measured under specific conditions of 0.5C and CC/CV.*
2. *Refer to the warranty conditions for the battery.*
3. *Seek manufacturer's advice above 2000m.*