

PHI-3.8-48-M : 3.8KWH 48V Lithium Battery by Simpliphi



Price: CAD \$4,499.00

SKU: PHI-3.8-48-M

Product Categories: [Multi-Use : 48V](#), [Batteries](#), [Lithium](#), [Shop](#)

Product Tags: [3.8kwh](#), [3800wh](#), [48v battery](#), [48v lifepo4](#), [48v lithium](#), [cabin](#), [canada](#), [cottage](#), [lead-acid replacement](#), [lfp battery](#), [lithium](#), [lithium battery](#), [lithium iron phosphate](#), [off-grid lithium](#), [phi](#), [phi 3.5kwh](#), [phi 3.8](#), [phi 3.8 canada](#), [PHI-3.8-48-60](#), [residential](#), [simpliphi](#), [simpliphi 3.8](#), [simpliphi battery canada](#), [simpliphi canada](#), [simpliphi phi](#), [tiny home](#)

Product Page:

<https://www.modernoutpost.com/product/phi-3-8-48-m-3-8kwh-48v-lithium-battery-by-simpliphi/>

Product Summary

The PHI-3.8-48-M is a 48V lithium iron phosphate (LFP) replacement for lead-acid

batteries that works with all major battery-based inverter brands. The PHI 3.8kWh 60 Amp deep-cycle Lithium Ferro Phosphate (LFP) battery is optimized with proprietary cell architecture, power electronics, BMS and assembly methods. It is modular, light- weight and scalable for installations that range from kWh to MWh.

Product Description

The PHI-3.8-48-M is a 48V lithium iron phosphate (LFP) replacement for lead-acid batteries that works with all major battery-based inverter brands. The PHI 3.8kWh 60 Amp deep-cycle Lithium Ferro Phosphate (LFP) battery is optimized with proprietary cell architecture, power electronics, BMS and assembly methods. It is modular, light- weight and scalable for installations that range from kWh to MWh. SimpliPhi Power's PHI 3.8-M Battery utilizes the safest Lithium Ion chemistry available, Lithium Ferro Phosphate (LFP, LiFePO₄, Lithium Iron Phosphate). No cobalt or explosive hazards. By eliminating cobalt, the risk of thermal runaway, fire propagation, operating temperature constraints, and toxic coolants are reduced. When combined with our integrated high-performance Battery Management System (BMS), accessible 80A DC breaker On/Off switch and overcurrent protection (OCPD), the PHI 3.8-M Battery delivers safe, highly efficient and cost-effective service over the life of both residential and commercial installations, on or off-grid. Compatible with all industry-standard inverter charge controllers, the PHI 3.8-M Battery supports balance-of-system equipment and optimizes any power generation source - solar, wind, grid, generator - with scalable, on-demand energy storage solutions for critical back-up and daily savings on electricity bills.

SimpliPhi PHI-3.8-48-M 3.8kWh Lithium Battery Features

- Built-in accessible 80 Amp DC breaker On/Off switch - increases safety and simplifies installations

48V LFP batteries with proprietary architecture and Battery Management System (BMS)—do not require ventilation, cooling or thermal regulation

- Compatible with all industry standard inverter/charge controllers - Drop in replacement for lead acid - LFP is the safest, most environmentally benign

Lithium Ion chemistry available—no risk of thermal runaway or fire - No AC or toxic liquid cooling - negligible parasitic drain - long cycle life - Non-toxic and non-hazardous recyclable materials

Simpliphi PHI-3.8-48-M Specifications In Brief

DC Voltages - Nominal : 51.2 (48V)

Amp Hours : 75 (48V)

Rated Wh Capacity @ C/2 : 3.8 kWh

Max Discharge Current : 60 Amps (10 mins)

Max Contin. Disch. Current : 37.5 Amps (48V)

Max Contin. Charge Current : 37.5 Amps (48V)

DC Voltage Range1 : 48 to 56 (48V)

Depth of Discharge1 : up to 100%

Operating Efficiency : 98%

Operating Temp1 : -4° to 140°F (-20° to 60°C)

Charge Temp : 32° to 120°F (0° to 49°C)

Self-Discharge Rate : <1% loss per month

Cycle Life : 10,000+

Memory Effect : None

Warranty Period : 10 Years

Weight : 77.5 lbs (35.15 kg)

Dimensions : 13.5 x 14 x 8 in. (15.5" H w/terminals) / 0.88 ft³ (34.3 x 35.6 x 20.3 cm / 0.025 m³)

Downloads

[PHI-3.8-48-M Spec Sheet](#)

Product Attributes

- Dimensions: 1 × 1 × 1 cm
- Weight: 35 kg
- DC Voltage: 24V, 48V

Product Gallery



**SAFETY RECOGNIZED
TESTED COMPONENT**
9540A UL STD 1973