## PHI 3.8-M™ BATTERY





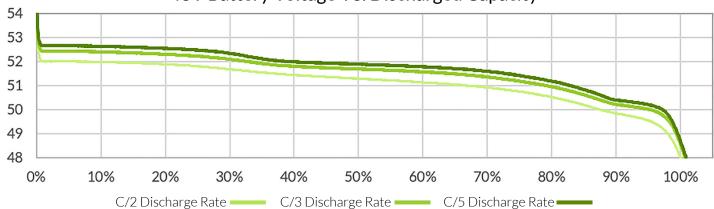
SimpliPhi Power's PHI 3.8-M™ Battery utilizes the safest Lithium Ion chemistry available, Lithium Ferro Phosphate (LFP). No cobalt or explosive hazards that put customers at risk. By eliminating cobalt, the risk of thermal runaway, fire propagation, operating temperature constraints, and toxic coolants 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 industrystandard 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.

PHI 3.8 kWh Module- Metal	24V	48V	
SKU	PHI-3.8-24-M	PHI-3.8-48-M	
DC Voltages - Nominal	25.6 VDC	51.2 VDC	
Amp-Hours	151 Ah	75 Ah	
Maximum Rated kWh Capacity	3.87 kWh DC @ 100% DOD 3.10 kWh DC @ 80% DOD	3.87 kWh DC @ 100% DOD 3.10 kWh DC @ 80% DOD	
MAX Discharge Rate (10 minutes)	80 Amps DC (2.05 kW DC)	80 Amps DC (4.1 kW DC)	
MAX Continuous Discharge Rate	75 Amps DC <b>(1.9 kW DC)</b>	37.5 Amps DC <b>(1.9 kW DC)</b>	
MAX Continuous Charge Rate	75 Amps DC (1.9 kW DC)	37.5 Amps DC (1.9 kW DC)	
DC Voltage Range <sup>1</sup>	24 VDC to 28 VDC	48 VDC to 56 VDC	
Depth of Discharge <sup>1</sup>	up to 100%		
Charging Temperature <sup>1</sup>	32° to 120° F (0° to 49° C)		
Operating Temperature <sup>1</sup>	-4° to 140° F (-20° to 60° C)		
Storage Temperature	6 months: 14° to 77° F (-10° to 25° C) 3 months: -4° to 113° F (-20° to 45° C)		
Self-Discharge Rate	< 1% per month		
Cycle Life	10,000+ cycles (@ 80% DOD)		
RTE Efficiency	96%		
Warranty	10 Years		
Weight	86 lbs. (39.0 kg)		
Dimensions (W x H x D)	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)		
Model Number	PHI3.8 24V M	PHI3.8 48V M	

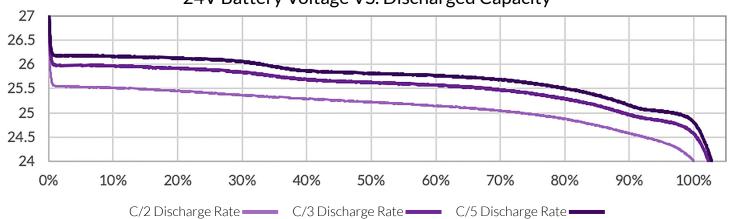
- 1. Max operating ranges. Refer to Installation Manual for recommended conditions.
- All specifications listed are typical/nominal and subject to change without notice
  UN 3480, Lithium ion batteries, 9, II
- UL, CE, UN/DOT and RoHS compliant components UL 1973, UL 1642
- · Designed and manufactured in California, USA

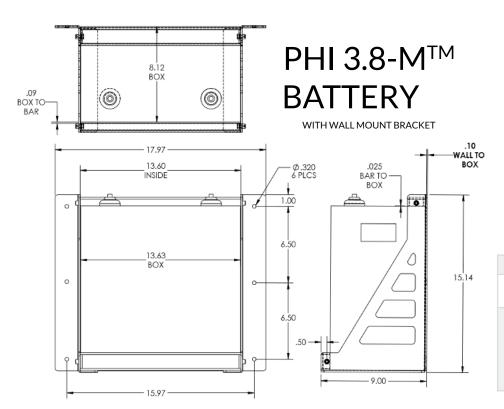


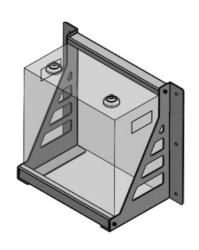
## 48V Battery Voltage VS. Discharged Capacity



## 24V Battery Voltage VS. Discharged Capacity







Terminals	3/8 IN	10 MM
Battery Cables	6 AWG MINIMUM	

Refer to the Integration Guide section of SimpliPhi's <u>Product Documentation</u> web page for wiring instructions, inverter and/or charge controller specific settings. Must be followed to maintain PHI Warranty.