## PHI 1.4<sup>™</sup> BATTERY



CHEMISTRY	Lithium Ferro Phosphate (LFP) The safest Lithium Ion chemistry available No cobalt or risk of thermal runaway
BMS	Built-in Battery Management System
CONNECTORS	Built-in SB50 Anderson Connector
COMPATIBILITY	Compatible with all industry standard inverters and charge controllers Battery bank-to-inverter output sizing must adhere to a 2:1 ratio: $battery \ quantity = \frac{inverter \ kW_{AC} \ rating \ \div \ inverter \ efficiency}{battery \ MAX \ Continuous \ Discharge \ Rate \ (kW_{DC})}$
MAINTENANCE	Maintenance-free No ventilation, cooling or thermal regulation required

PHI 1.4 ™	12V	24V	
DC Voltages - Nominal	12.8 VDC	25.6 VDC	
Amp-Hours	115 Ah	57 Ah	
Rated kWh Capacity	1.4 kWh DC @ 100% DOD 1.12 kWh DC @ 80% DOD	1.4 kWh DC @ 100% DOD 1.12 kWh DC @ 80% DOD	
MAX Discharge Rate (10 minutes)	60 Amps DC (0.76 kW DC)	60 Amps DC (1.53 kW DC)	
MAX Continuous Discharge Rate	40 Amps DC ( <b>0.51 kW DC</b> )	28.5 Amps DC ( <b>0.73 kW DC</b> )	
MAX Continuous Charge Rate	40 Amps DC (0.51 kW DC)	28.5 Amps DC (0.73 kW DC)	
DC Voltage Range <sup>1</sup>	12 VDC to 14 VDC	24 VDC to 28 VDC	
Depth of Discharge <sup>1</sup>	up to 100%		
Operating Efficiency	98%		
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)		
Memory Effect	None		
Warranty	10 years		
Weight	33.28 lbs. (15.1 kg)		
Dimensions (W x H x D)	11.25 x 9.25 x 6.25 in. / 0.37 ft <sup>3</sup> (23.495 x 28.575 x 15.875 cm / 0.010 m <sup>3</sup> )		

1. Max operating ranges. Refer to Installation Manual for recommended conditions.

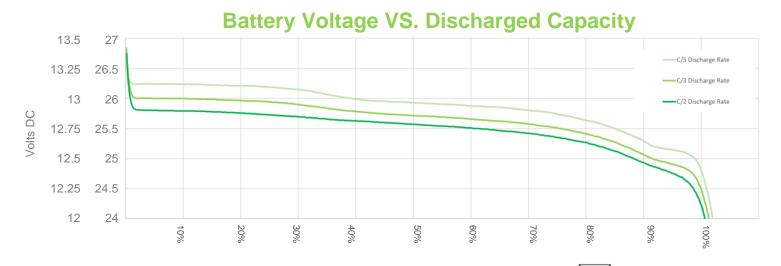
• All specifications listed are typical/nominal and subject to change without notice.

• UN 3480, Lithium ion batteries, 9, II

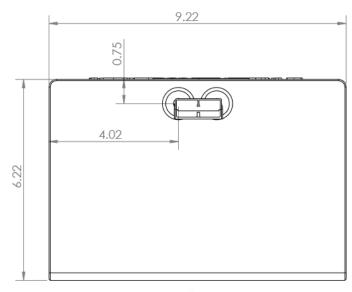
• UL, CE, UN/DOT and RoHS compliant components

• Designed and manufactured in California, USA



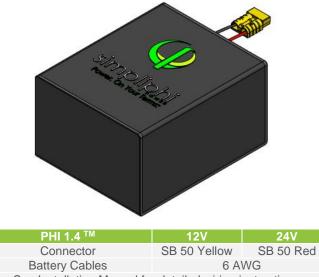


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See Installation Manual for detailed wiring instructions.

PHI 1.4 <sup>™</sup>	12V	24V	
Bulk & Absorb Charge	13.6 VDC	27.2 VDC	
Absorb Time	1 HR	1 HR	
Charge Controller Float Charge	13.5 VDC	27 VDC	
Inverter Charging	2 STAGE NO FLOAT		
Equalization Charge	NONE		
Temperature Compensation	NONE		

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

