

PHI 2.9™ LO-PROFILE 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
CONNECTOR	Built-in Anderson 200 Amp PowerMod Quick Connect
COMPATIBILITY	Compatible with all industry standard inverters and charge controllers Battery bank-to-inverter output sizing must adhere to a 2:1 ratio: $\text{battery quantity} = \frac{\text{inverter } kW_{AC} \text{ rating} \div \text{inverter efficiency}}{\text{battery MAX Continuous Discharge Rate (kW}_{DC})}$
MAINTENANCE	Maintenance-free. No ventilation, cooling or thermal regulation required

PHI 2.9™	24V	48V
DC Voltages - Nominal	25.6 VDC	51.2 VDC
Amp-Hours	115 Ah	57 Ah
Rated kWh Capacity	2.9 kWh DC @ 100% DOD 2.32 kWh DC @ 80% DOD	2.9 kWh DC @ 100% DOD 2.32 kWh DC @ 80% DOD
MAX Discharge Rate (10 minutes)	60 Amps DC (1.53 kW DC)	60 Amps DC (3.07 kW DC)
MAX Continuous Discharge Rate	45 Amps DC (1.15 kW DC)	28.5 Amps DC (1.45 kW DC)
MAX Continuous Charge Rate	45 Amps DC (1.15 kW DC)	28.5 Amps DC (1.45 kW DC)
DC Voltage Range ¹	24 VDC to 28 VDC	48 VDC to 56 VDC
Depth of Discharge ¹	up to 100%	
Operating Efficiency	98%	
Charging Temperature ¹	32° to 120° F (0° to 49° C)	
Operating Temperature ¹	-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 or 10,000 cycles (@ 80% DOD)	
Weight	61.06 lbs. (27.7 kg)	
Dimensions (W x H x D)	17.5 x 14 x 5 in. / 0.71 ft ³ (44.5 x 35.56 x 12.7 cm / 0.02 m ³)	

1. Max operating ranges. Refer to Warranty 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