

4.9
kWh

SIMPLI PHI™
Battery



The **Simpli PHI™ 4.9 kWh Battery** utilizes advanced Lithium Ferro Phosphate (LFP) chemistry to deliver more efficient, safer and reliable energy storage. Designed and built with versatility in mind, the Simpli PHI 4.9 kWh Battery seamlessly integrates with all leading inverters, making it an ideal solution for battery replacement, expansion of existing systems or as a new installation. This leading-edge power storage solution is also at the core of the Energy Storage System (ESS): the most advanced, safety-certified ESS available for homes and businesses.

FEATURES



Long battery life

10,000 cycles at 80% depth of discharge (DoD), 96% round-trip efficiency, 26.8 MWh of energy throughput, with 80% retained capacity.



Scalable for any energy need

Battery can scale to allow for expansion up to 358 kWh for longer-duration storage.



Flexible to pair with leading inverters

Ready to be integrated with Simpli PHI, Sol-Ark and SMA. Other inverters pending.



LFP battery chemistry

Provides peace of mind by reducing cobalt, risk of thermal runaway with fire propagation, operating temperature constraints and toxic coolants.



Broad operating temperature

Ability to be used in a variety of temperature ranges.



Maintenance-free

No ventilation, cooling or thermal regulation required; 10-year limited warranty.¹



Versatile installation options

IP65 rating supports all weather conditions for both indoor or outdoor installations.



Validated to industry's toughest safety standards

UL 1642, UL 1973, UN 3480 and UN DOT 38.3.



Closed-loop communication

Optimizing the inverter performance with ongoing feedback between the elements of the system.



Proven overcurrent protection

Integrated BMS and 100A DC breaker on/off switch protects the battery from overcharge and discharge, increasing safety during installation and operation.

¹See operator's manual or BRIGGSandSTRATTON.com for complete warranty details.

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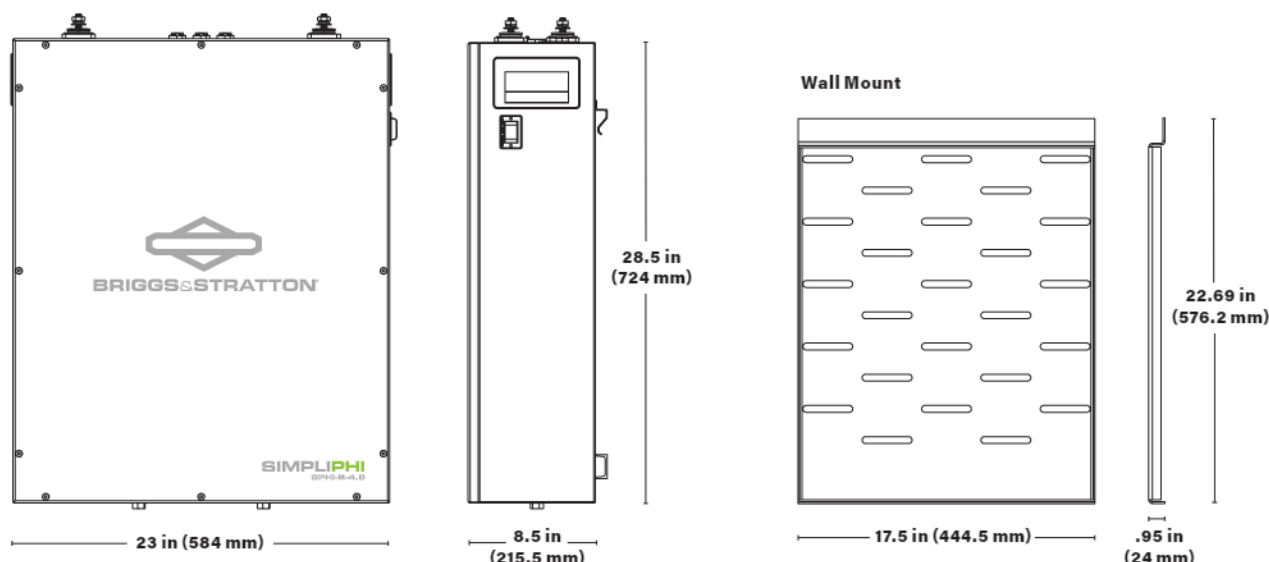
Battery Specifications	
Model Number	SPHIB-4.9
DC Voltage - Nominal	51.2 VDC
Amp-Hours	97 Ah
Rated kWh Capacity	4.9 kWh DC @ 100% DOD 3.9 kWh DC @ 80% DOD
Max. Surge Discharge Rate (10 minutes)	100 amps DC (5.1 kW DC)
Max. Continuous Discharge Rate	48.5 amps DC (2.48 kW DC)
Max. Continuous Charge Rate	48.5 amps DC (2.48 kW DC)
DC Voltage Range ¹	48 VDC to 56 VDC
Depth of Discharge ¹	up to 100%
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)

Product Dimensions	
Dimensions (W x H x D)	23 x 28.5 x 8.5 in (30 in H w/terminals) / 3.2 ft ³ (584 x 724 x 215.5 mm / 0.10 m ³)
Weight	160 lb (73 kg)
Wall Mount Dimensions (W x H x D)	17.5 x 22.69 x .95 in (444.5 x 576.2 x 24 mm)

Battery Specifications	
Self-Discharge Rate	< 1% per month (when off)
Cycle Life	10,000+ cycles (@ 80% DOD)
Memory Effect	None
IP Rating	IP65
Warranty	10 years
Mounting	Wall mount only
Efficiency Rating	96%
Communications	CANBUS
Certifications	UL 1642, UL 1973, UN 3480 and UN DOT 38.3

Capabilities	
Terminals	3/8 in (10 mm)
Battery Cables	4/0 Parallel Connections – Up to 4 batteries per string

Refer to the Integration Guide section of the [SimpliPHI Product Documentation](#) web page for specific wiring instructions, inverter and/or charge controller settings. Must be followed to maintain warranty.



¹Maximum operating ranges. Refer to Installation Manual for recommended conditions. All specifications listed are typical/nominal and subject to change without notice.