

4.98
kWh

SIMPLIPHI[®] Battery



BRIGGS & STRATTON
ENERGY SOLUTIONS



**15
YEAR
WARRANTY**
BATTERY



UL 9540A
Fire Safety Tested



The **SimpliPHI[®] 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 SimpliPHI 4.98 kWh¹ 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

96% round-trip efficiency, 50 MWh of energy throughput, with 70% retained capacity.



Scalable for any energy need

Battery can scale to allow for expansion up to 60 batteries (299 kWh) for longer-duration storage.



Flexible to pair with leading inverters

Ready to be integrated with SimpliPHI and Sol-Ark.



LFP battery chemistry

Energized with safer, cobalt-free, lithium-ion phosphate PHI and AmpliPHI batteries that outperform alternative solutions.



Broad operating temperature

Ability to be used in a variety of temperature ranges.



Maintenance-free

No ventilation, cooling or thermal regulation required; 15-year limited warranty.²



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, UN DOT 38.3, UL 9540A



Closed-loop communication

Optimizing the inverter performance with ongoing feedback between the components 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.

4.98

kWh

SIMPLI^{PHI}

Battery



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Battery Specifications	
Model Number	SPHI-B-4.9
DC Voltage - Nominal	51.2 VDC
Amp-Hours	97 Ah
Rated kWh Capacity	4.98 kWh DC @ 100% DOD 3.98 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)

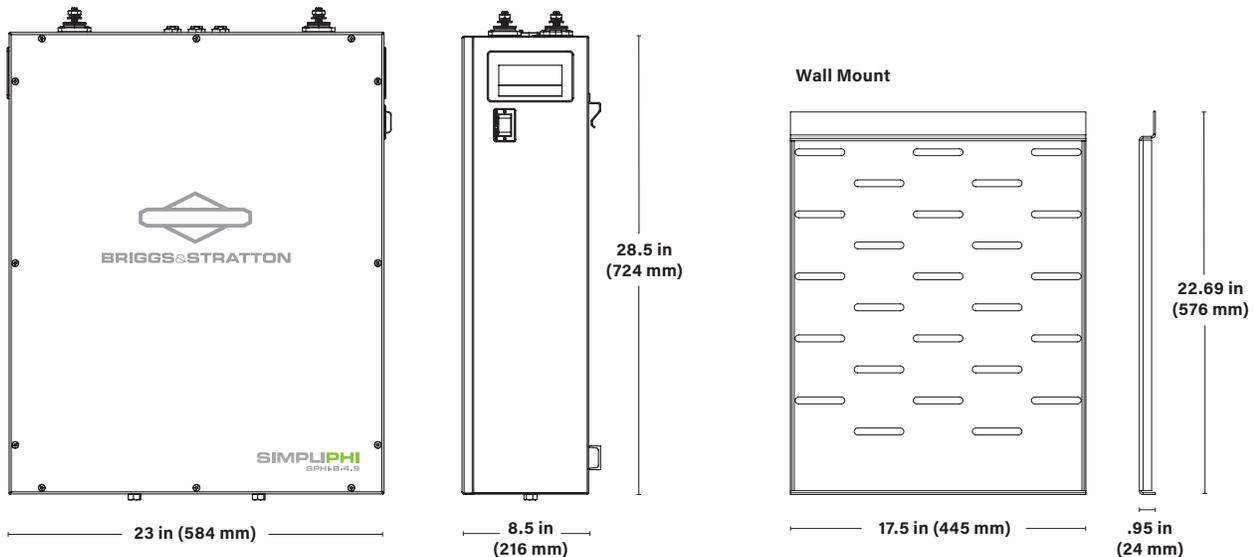
Battery Specifications	
Self-Discharge Rate	< 1% per month (when off)
Cycle Life	10,000+ cycles (@ 80% DOD)
Memory Effect	None
IP Rating	IP65
Warranty	15 years
Mounting	Wall mount only
Round Trip Efficiency*	96%
Communications	CANBUS
Certifications	UL 1642, UL 1973, UN 3480, UN DOT 38.3, UL 9540A

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 216 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 (445 x 576 x 24 mm)

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.

* in expected use cases



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

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

² See operator's manual or energy.briggsandstratton.com for complete warranty details.

Engineered and Manufactured in California, USA.

Briggs & Stratton has a policy of continuous product improvement and reserves the right to modify its specifications at any time and without prior notice. Please visit BRIGGSandSTRATTON.com for the latest information.

BS1383 - 8/23

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