

6.65
kWh



BRIGGS&STRATTON
ENERGY SOLUTIONS



SIMPLIPHI™

6.6 BATTERY

WIRE-FREE, STACKABLE DESIGN

BATTERY MODULE SPECIFICATIONS

VOLTAGE	
DC Voltage - Nominal	51.2 VDC
DC Voltage Range	44.8 - 56.8 VDC
Current	
Continuous Discharge Current - Maximum	130 ADC
Continuous Charge Current - Maximum	100 ADC
Maximum Surge Currents and Durations (ADC, sec)	240 ADC, 2 sec / 300 ADC 1 sec
Capacity	
Rated Capacity (Amp-Hours) - Nominal	130
Rated Capacity (Wh) - Nominal	6656
Operational Electrical Specifications	
Self-Discharge Rate (shutdown/off)	<.03 %/month
Cycle Life @ 0.75 charge/discharge rate	4500 Cycles at 100% Depth-of-Discharge 6000 Cycles at 80% Depth-of-Discharge
End of Life Capacity	75%
Minimum Round-Trip Efficiency Rating (C/2)	≥96%
Operational Environment	
Charge Temperature	-10°C ~ 50°C
Discharge Temperature	-20°C ~ 55°C (Self curtailment available with comm)
Operating Humidity	0% - 95% RH
Storage Environment	
Storage Temperature	-20°C ~ 55°C for 1 month / -20°C ~ 45°C for 6 months
Storage Humidity	0% - 95% RH

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6.6 Battery



Battery Module Physical Dimensions and Ratings	
Enclosure Material	Powder-coated Steel
Width - Inches (mm)	28.6" (726.4)
Depth - Inches (mm)	6.7" (170.2)
Height without Tabs - Inches (mm)	17.3" (439.4)
Height with Tabs Inches (mm)	18.9" (480.1)
Weight (kg)	125 lbs (56.7)
IP Rating	IP 20 (IP 65 when stacked)
Altitude	≤3000M
Corrosion resistance rating	240H
Salt-Fog rating	240H

BATTERY CONTROLLER SPECIFICATIONS

Stack Information per stack (up to 3 batteries)	1 required
Maximum Controllers per system	6 - up to 3 batteries
Operational Environment	
Operating Temperature	-20°C ~ 55°C
Operating Humidity	0% - 95% RH
Storage Environment	
Storage Temperature	-20°C ~ 55°C
Storage Humidity	0% - 95% RH
Communication	
CAN, RS485	Compatible with Sol-Ark, Briggs & Stratton
Physical Dimensions and Ratings	
Width (mm)	28.6" (726.4)
Depth (mm)	6.7" (170.0)
Height (mm)	6" (152.4)
Weight (kg)	14 lbs (7.0)
IP Rating	IP 65
Altitude	≤3000M
Corrosion resistance rating	240H
Salt-Fog rating	240H
Enclosure Material	Powder-coated Steel

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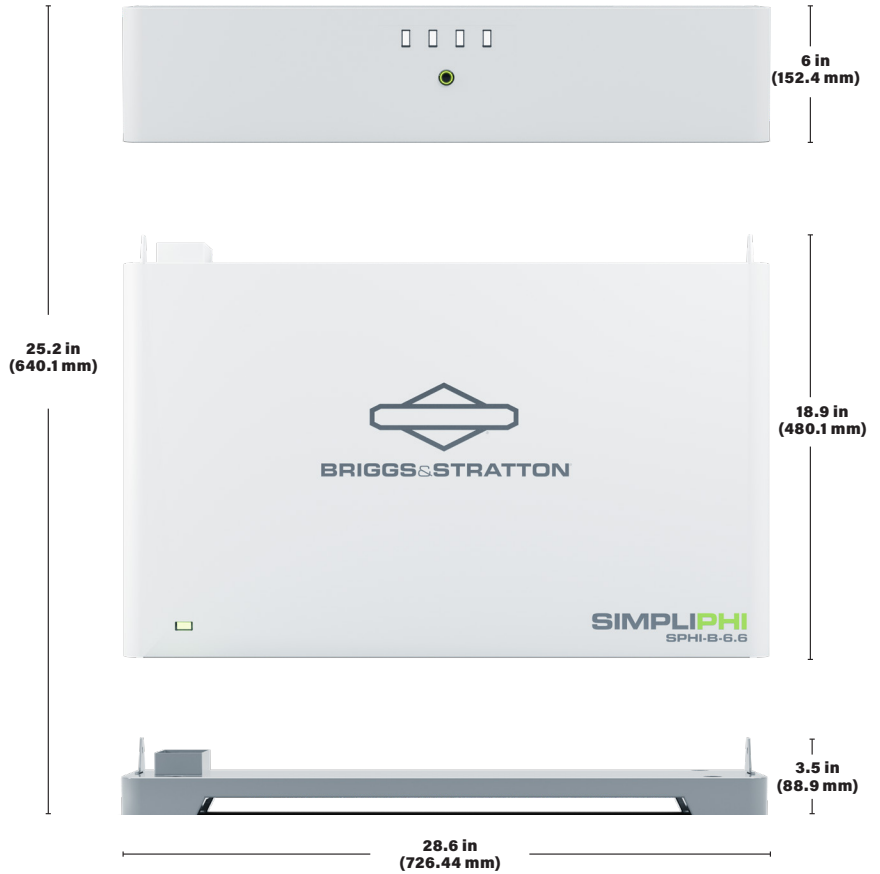


Ground Base Specifications

Per Stack (up to 3 batteries)	1
Width (mm)	28.6" (726.4)
Depth (mm)	6.7" (170.9)
Height with Tabs (mm)	3.5" (88.9)
Height without Tabs (mm)	1.9" (48.3)
Weight (kg)	5 lbs (2.3)

Wall Base Specifications

Per Stack (up to 3 batteries)	1
Width (mm)	28.9" (734.1)
Depth (mm)	5.5" (139.7)
Height with Tabs (mm)	3.5" (88.9)
Height without Tabs (mm)	1.5" (38.1)
Weight (kg)	12.4 lbs (5.6)



STACKED SPECIFICATIONS

Stack Information	
Maximum modules per stack	3
Maximum batteries per system	18 (6 stacks of 3 - 119 kWh)
Full Stack Dimensions	H: 60.4" x W: 28.6" x D: 6.7"
Certifications	UL 9540 Edition 3, UL 9540A, UL1973, UL 1998 + 991, UN 38.3, UN 3480, IEC62619

Battery Module Specifications

# of Battery Modules	Capacity (kWh)	Charge Power (kW)	Discharge Power (kW)	Surge (kW, 10s)	C-Rate	Discharge Current (A)
1 (SPHI-6.6-LO)	6.65	3.33	6.66	8.3	1.00	130
2 (SPHI-13.2-LO)	13.3	6.66	10.65	13.3	0.80	208
3 (SPHI-19.8-LO)	19.95	9.98	13.98	17.5	0.70	273



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

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