High-Voltage Battery Storage Packages

BRIGGS&STRATTON
ENERGY SOLUTIONS

High-Voltage Battery Storage Packages

Optimize your energy usage, reduce utility charges and protect your business from power outages with Briggs & Stratton High-Voltage Battery Packages. Conveniently paired with industry-leading inverter brands, our PHI™ High Voltage Batteries are designed with lithium ferro phosphate (LFP) chemistry that is non-toxic and less prone to thermal runaway events. Our pre-configured packages include racking, battery management system (BMS), stack controllers and inverters for fast and easy energy storage system (ESS) implementation. Packages can be scaled up to 2 MWh to meet specific requirements and are compatible with third-party energy management system (EMS) solutions.

Benefits of Battery Storage

Shave off expensive peak charges
Briggs & Stratton HV battery energy storage systems (BESS) reduce or eliminate peak electricity charges by utilizing battery energy during your peak electrical load

Eliminate Time-of-Use (TOU) Charges
Reduce or eliminate TOU charges by charging when the utility rates are low and discharging when rates are high

Participate in Demand Response (DR) Programs
Take advantage of utility rate incentives by using your batteries to reduce overall peak utility load demand, offsetting the capital cost of your system

Optimize Your On-site Renewable Generation (Wind and Solar)
Behind-the-meter (BTM) storage combined with renewable energy technologies can provide both cost savings and resiliency by storing the power you generate to use when you need it

Emergency Backup Power and Resilience
Provide critical power reserves for equipment during utility power outages - saving you significant money from lost operations

Microgrid and Off-Grid Applications
Create a microgrid to provide power and energy resiliency for mission-critical loads on-grid while also bringing power to areas where the grid is not available or prohibitively expensive

Why Briggs & Stratton

high-voltage battery storage?

PHI™ HV batteries are optimized with proprietary cell architecture and manufacturing processes, as well as state-of-the-art battery management system (BMS) and stack controllers, for highly efficient, non-hazardous on-demand power.

PHI HV Batteries are Engineered & Assembled in the USA![1]

Safer-by-Design Starting with the Chemistry

Our proprietary lithium ferro phosphate (LFP) design, paired with a proprietary HV BMS, provide greater reliability, safety and performance in comparison to other technologies. PHI HV batteries are also capable of interfacing with other third-party external BMS of choice.

Batteries are UL 1973 Certified and UL 9540A safety tested to ensure reliable performance over a 10 year warranty.

Scalable and Easily Configurable Solutions to Meet Project Requirements

Briggs & Stratton HV solutions offer a modular design that easily scales and can be tailored to your project. The PHI HV battery can be wired in series to build a system that matches voltage requirements from 200 VDC to 1250 VDC and 100 kWh to 2 MWh.

High Power and High-Performance Batteries

We've optimized the life-cycle, depth of-discharge, rate of charge and discharge and round-trip efficiency, increasing battery performance, durability and longevity batteries. PHI HV batteries can withstand extreme conditions, maintaining system integrity.

Future-Proof Solutions for Multiple Applications

With conventional battery storage, sizing and planning for future needs can be difficult. PHI HV systems are available in racks of batteries, which can be self contained in 10, 20, or 40-foot containers, which makes increasing capacity easy to future proof your energy investment.

Proven Track Record

With over a decade of experience, we have tens of thousands of battery storage systems deployed in over 40 countries delivering in excess of 500 MWh. Validated by US Army and Marine Corps as having a Zero Failure Rate, our LFP batteries have the longest proven track record in harsh environments around the globe.

High-Voltage Packages

208 VAC Packages

PACKAGES	50 kWh	60 kWh	100 kWh	150 kWh
Model Number	OZ18-48-12	SA30-24-14	SA30-24-12D	SA30-24-17D
Inverter	Oztek 40K	Sol-Ark 30K	Sol-Ark 30K	Sol-Ark 30K
Stack Controllers	1	1	2	2
Racks	2	2	3	4
Batteries (24V or 48V)	12 (48V)	14 (24V)	24 (24V)	34 (24V)
Total Capacity	53.1 kWh	61.9 kWh	406.2 kWh	120.32 kWh
Usable Capacity*	42.48 kWh	49.52 kWh	84.96 kWh	120.32 kWh
Total Power Capacity	26.55 kW	30 kW	27.6 kW	30 kW
AC Output	18 kW	30 kW	27.6 kW	30 kW
AC Output Voltage	208V	208V	208V	208V
Price Per kWh**	$718 - $1,026	$819 - $911	$741 - $823	$519 - $742

* Usable capacity is estimated at 80% of battery capacity.
** Product may be eligible for US Content price discounts. For more information contact factory.

Key Features & Benefits

Wider Operating Temperatures Reduces HVAC Requirements

The Lowest Storage Levelized Cost of Energy (LCOE) in the Industry

Scalable Configurations with Sizing up to 2 MWh

Products at a Glance

PHI™ High Voltage Battery (24V or 48V)

Oztek® 40K Hybrid Inverter

Nuvation® Stack Controller

Sol-Ark® 30K Hybrid Inverter

Briggs & Stratton® High Voltage Battery Rack

Learn more about commercial power solutions at energy.briggsandstratton.com/commercial

High-Voltage Packages

480 VAC Packages

PACKAGES	60 kWh - 30 kW	100 kWh - 40 kW	125 kWh - 40 kW	125 kWh - 80 kW	215 kWh	250 kWh - 60 kW	250 kWh - 80 kW
Model Number	SA60-48-14	OZ40-24-24	OZ40-24-28	SA60-24-28	OZ40D-24-24D	SA60-24-28D	OZ40D-24-28D
Inverter	Sol-Ark 60K	Oztek 40K	Oztek 40K	Sol-Ark 60K	Oztek 40K (2)	Sol-Ark 60K	Oztek 40K (2)
Stack Controllers	1	1	1	1	2	2	2
Racks	NA	3	3	3	6	6	6
Batteries (24V or 48V)	14 (48V)	24 (24V)	28 (24V)	28 (24V)	48 (24V)	56 (24V)	56 (24V)
Total Capacity	61.9 kWh	106.2 kWh	123.9 kWh	124 kWh	212.6 kWh	248 kWh	248 kWh
Usable Capacity*	49.52 kWh	84.96 kWh	99.12 kWh	99.20 kWh	170.08 kWh	198.4 kWh	198.4 kWh
Total Power Capacity	30.95 kW	40 kW	40 kW	60 kW	80 kW	60 kW	80 kW
AC Output	60 kW	40 kW	40 kW	60 kW	80 kW	60 kW	80 kW
AC Output Voltage	480V	480V	480V	480V	480V	480V	480V
Price Per Kwh**	$858 - $953	$579 - $827	$546 - $779	$729 - $810	$525 - $750	$611 - $679	$499 - $714

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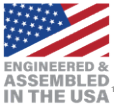

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[1] Engineered and assembled in the USA of domestic and foreign components.
Briggs & Stratton has a policy of continuous product improvement and reserves the right to modify its specifications at any time and without prior notice. Please visit energy.briggsandstratton.com for the latest information.