

SMART ENERGY STORAGE SYSTEMS

HS business

PV BATTERY SYSTEM WITH LiFePO₄ TECHNOLOGY

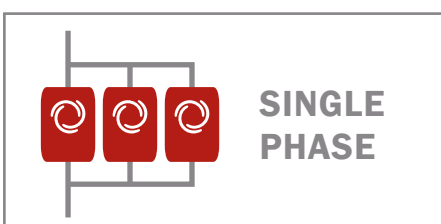
BOS LITHIUM (LiFePO₄) ENERGY STORAGE SYSTEMS – ALL IN ONE SOLUTION

The Smart Energy Storage Systems from BOS-AG enable uninterrupted power supply in off grid and unreliable grid scenarios. The HS business is designed for mini grids, community facilities, businesses and many more. It comes with integrated lithium (LiFePO₄) batteries in different sizes and can either be operated as pure lithium system or combined with lead acid systems and diesel gensets. Thanks to the smart modular design, the HS business can be adapted in battery size, PV size, inverter power, output voltage and frequency. The systems are suitable for large volume installations and can be used in different system configurations.

CORE BENEFITS

- Pre-wired and configured – ready for installation
- Smart switching of loads and energy sources
- Select priority loads with an extra AC output
- State of the art LiFePO₄ batteries
- Possible retrofitting & extension of already installed lead acid systems
- Extensive remote monitoring functions and PAYG option
- Robust housing in industrial enclosure

SYSTEM CONFIGURATIONS:



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ALL IN ONE SOLUTION – ALL THE POWER YOU NEED

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Nominal system voltage	48 V	48 V
Integrated lithium battery capacity	5120 Wh	10240 Wh
Inverter type	3 kVA	5 kVA
Inverter output	Pure sine wave	
AC power output	2400 W @25 °C 2200 W @40 °C 1700 W @60 °C	4000 W @40 °C 3700 W @40 °C 3000 W @60 °C
AC power output peak	6000 W	10000 W
Max. charge current from grid	35 A	70 A
AC grid bypass current	50 A	100 A
AC output voltage	230 V or 120 V	230 V or 120 V
AC output frequency	50/60 Hz adjustable	50/60 Hz adjustable
Second AC output	230 V or 120 V 16 A	230 V or 120 V 16 A
Max. PV size	5 kWp	10 kWp
Solar charger quantity and type	1x MPPT 250/60	2x MPPT 250/60
Max. PV open circuit voltage	250 V	250 V
Max. charge current from PV	60 A	2x 60 A
Self-consumption	< 35 W	< 35 W
Max wire size	35 mm ²	35 mm ²
Style of housing	Industrial enclosure	Industrial enclosure
Housing dimensions	600 mm x 410 mm x 1230 mm (L x W x H)	600 mm x 410 mm x 1230 mm (L x W x H)
Weight	155 kg	230 kg
Ambient temperature	0 °C to 50 °C, maximum battery life at 15 °C to 25 °C	
Protection	Overload, Overcurrent, Short circuit, Deep discharge, Wrong polarity	
Features	Prewired, Preconfigured, Ventilation and temperature management, LCD-Display, USB charging port, integrated global SIM card with credit for remote GSM access, PAYG remote control, Individual system monitoring and aggregated cluster monitoring, Lithium balancing, Two individual controlled AC outputs, Priority selection AC in/Solar	

DATASHEET IS SUBJECT TO CHANGE. REVISION MAY 2020

NOTE: CHANGES TO THE PRODUCTS AND THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE ANYTIME WITHOUT NOTICE. PLEASE CONTACT CONTACT@BOS-AG.COM FOR MORE INFORMATION.