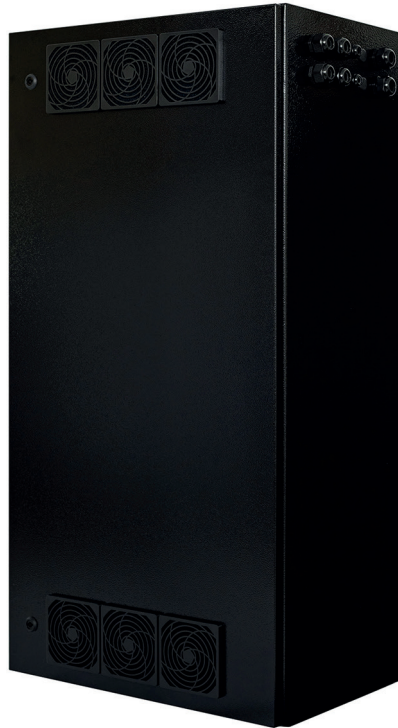


SMART ENERGY STORAGE SYSTEMS

HS business

PV BATTERY SYSTEM WITH LiFePO₄ HYBRID TECHNOLOGY



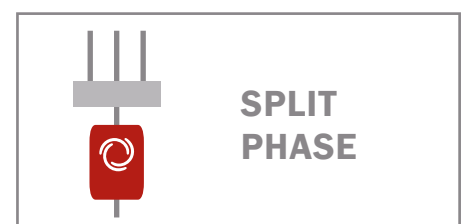
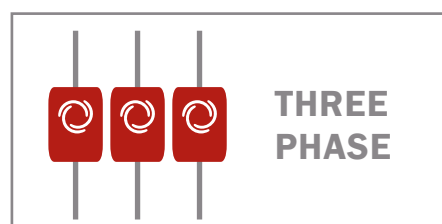
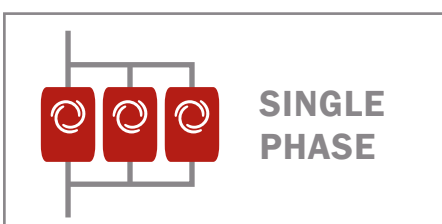
BOS LITHIUM (LiFePO₄) ENERGY STORAGE SYSTEMS – ALL IN ONE SOLUTION

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
- 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:



HS business

PV BATTERY SYSTEM WITH LiFePO₄ HYBRID TECHNOLOGY

Select your:

Integrated battery capacity

Integrated battery type

Select your:

AC output voltage

AC output frequency

Select your:

Inverter type

Inverter output

AC power output

AC power output peak

Max. charge current from grid

AC grid bypass current

Select your:

Max. PV size

Solar charger quantity and type

Max. PV open circuit voltage

Max. charge current from PV

General technical data

Nominal System voltage

Self-consumption

Max wire size

Style of housing

Housing dimensions

Weight

Ambient temperature

Protection

Features

BATTERY CAPACITY

5120 Wh	10240 Wh
Lithium-iron battery (LiFePO ₄)	Lithium-iron battery (LiFePO ₄)

AC OUTPUT VOLTAGE

120 V	230 V
50/60 Hz adjustable	50/60 Hz adjustable

INVERTER

3 kVA / Multiplus 1	3 kVA / Multiplus 2	5 kVA / Multiplus 1	5 kVA / Multiplus 2
Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
3000 VA @25 °C 2400 W @25 °C 2200 W @40 °C 1700 W @60 °C	3000 VA @25 °C 2400 W @25 °C 2200 W @40 °C 1700 W @60 °C	5000 VA @25 °C 4000 W @40 °C 3700 W @40 °C 3000 W @60 °C	5000 VA @25 °C 4000 W @40 °C 3700 W @40 °C 3000 W @60 °C
6000 W	5500 W	10000 W	9000 W
35 A	32 A	70 A	50 A
50 A	32 A	100 A	50 A

SOLAR CHARGER

5 kWp	10 kWp
1x MPPT 150/70	2x MPPT 150/70
150 V	150 V
70 A	2x 70 A

48 VDC
< 35 W
35 mm ²
Industrial enclosure
600 mm x 410 mm x 1230 mm (L x W x H)
190 kg (5 kWh) 230 kg (10 kWh)
0 °C to 50 °C, maximum battery life at 15 °C to 25 °C
Overload, Overcurrent, Short circuit, Deep discharge, Wrong polarity
Prewired, Preconfigured, Ventilation and temperature management, LCD-Display, USB charging port, Remote 2GSM access, PAYG remote control, Individual system monitoring and aggregated cluster monitoring, Lithium balancing, two individual controlled AC outputs, Priority selection AC in/Solar