

LITHIUM BATTERY SYSTEMS  
WITH OPTIONAL LEAD ACID HYBRID



# HS10000/HS20000

SMART AND AFFORDABLE LITHIUM SOLAR ENERGY STORAGE SYSTEMS



**BOS LITHIUM (LiFePO<sub>4</sub>) STORAGE SYSTEMS CAN BE COMBINED WITH LEAD ACID BATTERIES TO OFFER SUPERB PERFORMANCE AT COMPETITIVE COSTS.**

The HS10000/HS20000 system from BOS-AG combine lithium and lead acid battery charge regulation in one system. They come with integrated lithium (LiFePO<sub>4</sub>) batteries in different sizes and can either be operated as pure lithium system or combined with lead acid batteries. Built into a robust industrial steel enclosure the systems offer superb lithium like performance, optionally combined with cheap lead acid backup capacity. This improves system performance and decreases power costs immediately. The systems come with fully integrated inverter/charger to offer uninterrupted power supply and recharging possibili-

ty from AC mains grid. Due to the integrated MPPT solar charge controller, the systems give you energy autonomy, no matter how often the grid fails. The systems offer smart switching of loads and energy sources, to offer unprecedented energy efficiency and high performance. Due to the optional datalogger and GSM functionality, all data is accessible from anywhere in the world, and the systems can be operated in a PayG scenario with remote locking and control.

# HS10000/HS20000

SMART AND AFFORDABLE LITHIUM SOLAR ENERGY STORAGE SYSTEMS

## MAIN TECHNICAL DATA

### HS10000

### HS20000

Nominal system voltage	48 VDC	48 VDC
Integrated lithium battery capacity	10.240 Wh	20.480 Wh
Lead acid capacity	Optional (not yet available)	
Inverter output	Pure sine wave	
AC output voltage and frequency	230 V/50 Hz	380 V/50 Hz
AC power output	5000 VA @25 °C 3700 W @40 °C 3000 W @65 °C	3x 3000 VA @25 °C
AC power output peak	10.000 W	3x 6000 W
AC input voltage and frequency	187–265 V/45 – 65 Hz	187–265 V/45 – 65 Hz
Max. charge current from grid	70 A	50 A (3 Phases)
AC grid bypass current	100 A	50 A (3 Phases)
Solar charger type	MPPT	
Max. PV open circuit voltage	150 V	150 V
Max. charge current from PV	2x 70 A	2x 70 A
Self-consumption	<35 W	<70 W
Style of housing	Industrial enclosure	Industrial enclosure
Housing dimensions	1230x600x410 mm	2x 1230x600x410 mm
Max wire size	35 mm <sup>2</sup>	35 mm <sup>2</sup>
Weight	230 kg	460 kg
Ambient temperature	0 – 50 °C maximum battery life at 15 – 25 °C	
Features	Integrated display, Remote 2G access, Lithium balancing, Priority selection AC/Solar, Individually controlled AC outputs overload, Overcurrent, Short-circuit, Deep-discharge, Wrong-polarity protection, Integrated USB charging port, PAY G remote control	

DATASHEET IS SUBJECT TO CHANGE. REVISION MAY 2018.

NOTE: Changes to the products as well as to above listed specifications might apply at any time without notice. Please contact [contact@bos-ag.com](mailto:contact@bos-ag.com) for details.

