

LITHIUM BATTERY SYSTEMS
WITH OPTIONAL LEAD ACID HYBRID



HS500/2500/5000

SMART AND AFFORDABLE LITHIUM SOLAR ENERGY STORAGE SYSTEMS



BOS LITHIUM (LiFePO₄) STORAGE SYSTEMS WITH INTEGRATED MPPT SOLAR CHARGE CONTROLLER OFFERS SUPERB PERFORMANCE AT COMPETITIVE COSTS.

HS500/HS2500/HS5000 AC systems from BOS-AG combine lithium and lead acid battery charge regulation in one system. They come with integrated lithium (LiFePO₄) batteries in different sizes and can either be operated as pure lithium system or combined with lead acid batteries. Built into an eye-catching cube design enclosure or robust industrial steel enclosure the systems offer superb lithium like performance, optionally combined with cheap lead acid backup capacity. HS500/HS2500/HS5000 systems can upgrade any existing lead acid system by simply replacing the old charge regulator/inverter. This improves system perfor-

mance and decreases power costs immediately. The systems come with fully integrated inverter/charger to offer uninterrupted power supply and recharging possibility 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. Each system has an integrated datalogger and GSM module. All data is accessible from anywhere in the world, and the systems can be operated in a PAY G scenario with remote locking and control.

HS500/2500/5000

SMART AND AFFORDABLE LITHIUM SOLAR ENERGY STORAGE SYSTEMS

MAIN TECHNICAL DATA

	HS500	HS2500	HS5000
Nominal system voltage	24 VDC	24 VDC	48 VDC
Integrated lithium battery capacity	656 Wh	2560 Wh	5120 Wh
Optional lithium upgrade	+ 656 Wh	+ 2560 Wh	+ 5120 Wh (Requires second enclosure)
Lead acid capacity (not included)	Only in hybrid mode 2x 50 Ah – 2x 100 Ah @12 V	Optional (not yet available)	Optional (not yet available)
Integrated DC output (12 V/250 W)	Yes	n.a.	n.a.
Integrated DC output (24 V/500 W)	Yes	n.a.	n.a.
Inverter output	Pure sine wave	Pure sine wave	Pure sine wave
AC output voltage and frequency	230 V/50 Hz		
AC power output	800 VA @ 25 °C 650 W @ 40 °C 400 W @ 65 °C	1600 VA @ 25 °C 1200 W @ 40 °C 800 W @ 65 °C	3000 VA @25 °C 2200 W @ 40 °C 1700 W @ 65 °C
AC power output peak	1600 W	3000 W	6000 W
AC input voltage and frequency	187 – 265 V/45 – 65 Hz		
Max. charge current from grid	16 A	40 A	35 A
AC grid bypass current	16 A	16 A	50 A
Solar charger type	MPPT		
Max. PV open circuit voltage	100 V	100 V	150 V
Max. charge current from PV	30 A	50 A	70 A
Self-consumption	< 15 W	< 20 W	< 25 W
Style of housing	Cube enclosure	Cube enclosure	Industrial enclosure
Housing dimensions	620x600x340 mm	620x600x340 mm	830x630x420 mm
Max wire size	16 mm ²	25 mm ²	35 mm ²
Weight	35 kg	60 kg	125 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, USB charging port, PAYG remote control		

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 for details.

