

## SUNCORE HV SERIES

## COMMERCIAL & INDUSTRIAL

# High Voltage Battery System

With advanced 1.5C technology, the Greenrich battery delivers higher power output when it is needed most.

**1.5C**

Cell Discharging Rate



Cylindrical Battery Cells

**Ultimate Safety**



**6000  
CYCLES  
WARRANTY**



## SUNCORE HV SERIES



### High Rate

- Dynamic cylindrical cells with a 1.5C discharge rate



### Modular

- Modular design ensures the system is right-sized for the storage requirements
- Easily expandable — battery clusters can be connected in series to support different voltage requirements



### Intelligence

- High current detection accuracy with dual detection loops
- Compatible with 80V-1000Vdc system
- Master-slave architecture ensures stable and safe operation
- Reliable communication with cloud-based data monitoring
- Supports remote monitoring and firmware upgrades via Wi-Fi



### Safety

- Lithium iron phosphate (LFP)
- Passed nail penetration test with no fire hazard
- Passed thermal propagation testing in accordance with UL9540A
- Individual cell voltages are monitored across 16 series cells with four levels of detection

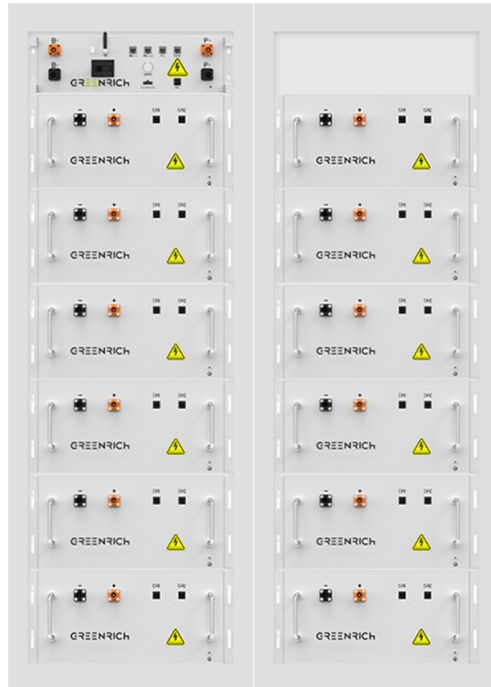


### Reliability

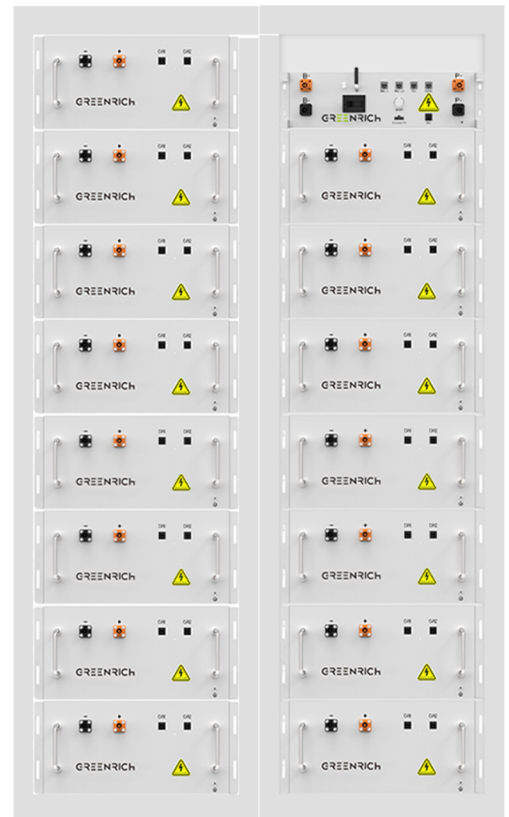
- 6000 cycles life
- No single point of failure



SUNCORE HV50-30



SUNCORE HV50-60



SUNCORE HV80-120

## SPECIFICATION

System	SUNCORE HV 50-30	SUNCORE HV 50-60	SUNCORE HV 80-120
Rated Voltage (V)	307.2	614.4	768
System Capacity (kWh)	29.67	59.35	120.1
Rated Charge Current (A)	80	80	125
Rated Discharge Current (A)	120	120	190
Battery Module Qty in Series	6	12	15
Parallelizable	Up to 10, 296.7kWh	Up to 10, 493.5kWh	Up to 10, 1201kWh
Communication	RS485, CAN		
Cooling	Natural air cooling		
IP Rate	IP20		
Operating Temperature (°C)	Charge: -10~55 / Discharge: -20~60		
Humidity	5~95% RH		
Storage Temperature (°C)	-10~45		
Installation	Rack Mounting		
Dimension (W*D*H) (mm)	540*550*1695	1020*550*1695	1020*550*2030
Approximate Weight (kg)	350	700	1200
Battery Module	HVB50096-P	HVB50096-P	HVB50156-P
Cell Chemistry	LiFePO <sub>4</sub> Cylindrical cells		
Module Capacity (kWh)	4.945	4.945	8.007
Module Rated Voltage (V)	51.2	51.2	51.2
Module Weight (kg)	47	47	69
Dimension (W*D*H) (mm)	438*536*221		
High Voltage Control Box	HVCB125-P	HVCB125-P	HVCB200-P
Dimension (W*D*H) (mm)	438*478*133		438*478*221
Approximate Weight (kg)	14		24

## COMPATIBLE WITH



All information contained in this document is subject to change without notice.