

## PRODUCT MODEL

■ SR BAT HV52S (Battery)



5

102.4V 5.3kWh  
Stackable up to 5 modules

1C

1C charging/discharging

4+2  
LED

4 LED (SOC: 25%-SOC, 100%  
blue), 2 LED (working green,  
alarming red)

IP65

IP65(Outdoor)



Safety and long lifespan, high efficiency and high-power density.



Support high discharge power, module level Auto-balancing, under-voltage Automatic Restart.



Intelligent BMS, providing complete protection



Whole module non-toxic,pollution-free.



Battery module auto networking, Automatic IP addressing, easy maintenance, Free stand design and saving installation space



Remotely monitoring and upgrade, support USB drive upgrade the firmware.

# SR BAT HV52S

MODEL	HVRES-BWP-5.3kWh	HVRES-BWP-10.6kWh	HVRES-BWP-15.9kWh	HVRES-BWP-21.2kWh	HVRES-BWP-26.5kWh
Total Energy [kWh]	5.3	10.6	15.9	21.2	26.5
Battery Module	102.4V 5.3kWh				
Number of Modules	1	2	3	4	5
Cell Type	LFP ( LiFe PO4)				
Nominal Voltage [V]	102.4	204.8	307.2	409.6	512
Operating Voltage [V]	80 - 116.8	160 - 233.6	240 - 350.4	320 - 467.2	400 - 584
Max. Charge / Discharge Current [A]	50	50	50	50	50
Continue Discharge Output [kW]	5	10	15	20	25
Dimension [W*D*H]	740 * 366 * 400mm	740 * 366 *620mm	740 * 366 *840mm	740 * 366*1060mm	740 * 366*1280mm
Approximate Weight [KG]	69	119	169	219	269

## General Specifications

Recommend Depth of Discharge	90%
LED Indicator	4 LED (SOC: 25%-SOC, 100% blue), 2 LED (working green, alarming red)
IP Rating of Enclosure	IP65
Operating Temperature	Charge: 0℃ - 45℃/ Discharge: -20℃ - 50℃
Storage Temperature	0℃ - 35℃
Humidity	≤ 95%
Altitude	≤ 2000m
Cycle Life	10 + years, 6000 cycles (90% DOD, 25℃)
Installation	Stack, Floor-mounted
Communication Port	CAN2.0
Certification	UN38.3, UL1973, UL9540a, UL9540, CEC Listing

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25℃. System usable energy may vary due to system configuration parameters.  
[2] The current is affected by temperature and SOC.

**Introduction**  
CESC Residential Li-ion Battery System SR BAT HV52S is a high voltage lithium battery with an integrated battery system that stores your energy for backup protection when the grid goes down. The compact, minimalist construction features versatile mounting options for indoor or outdoor spaces. This series is especially suitable for application scene of high power, limited installation space, restricted load-bearing and long cycle life. This series has built-in BMS battery management system, which can manage and monitor cells information including voltage, current and temperature. What’s more, BMS can balance cells charging and discharging to extend cycle life. Multiple battery modules can connect in series to expand capacity and power for larger capacity an longer power supporting duration requirements.

## Modules

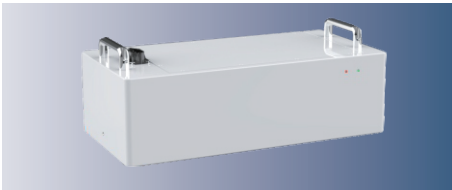
### High Voltage Battery Control Unit (BCU)

Operating Voltage	70 - 600Vdc
Max Charge / Discharge Current	50A
Ingress Protection	IP65
Operating Temperature	Charge: 0℃ - 45℃/ Discharge: -20℃ - 50℃
Storage Temperature	0℃ - 35℃
Dimension (W*D*H)	740*366*120mm
Approximate Weight	12KG



### Battery Module

Battery Type	LiFePO4(LFP)
Nominal Voltage	102.4Vdc
Nominal Capacity	52Ah
Nominal Energy	5.3kWh
Max Charge / Discharge Current	50A
Operating Temperature	Charge: 0℃ - 45℃/ Discharge: -20℃ - 50℃
Storage Temperature	0℃ - 35℃
Ingress Protection	IP65
Dimension (W*D*H)	740*366*220mm
Approximate Weight	50KG



### Base

Dimension (W*D*H)	740*366*60mm
Approximate Weight	7KG

