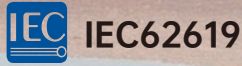
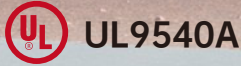


high-voltage battery system

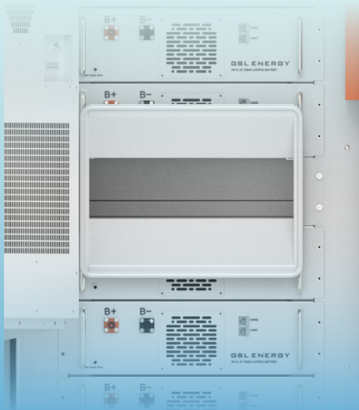
# Air-Cooling Commercial ESS

HV51100 5.12 kWh Module

SP-BESS-R40K-R / SP-BESS-R60K-R



**Built-in Air Duct Design,  
Intelligent Constant  
Temperature Control**



*Easy Installation  
and Flexible  
Deployment*



*6,500 Times of  
Long cycle Life*



*Comprehensive  
Safety Protection*



*IP54 Ingress  
Rating*



Farms



Hotels

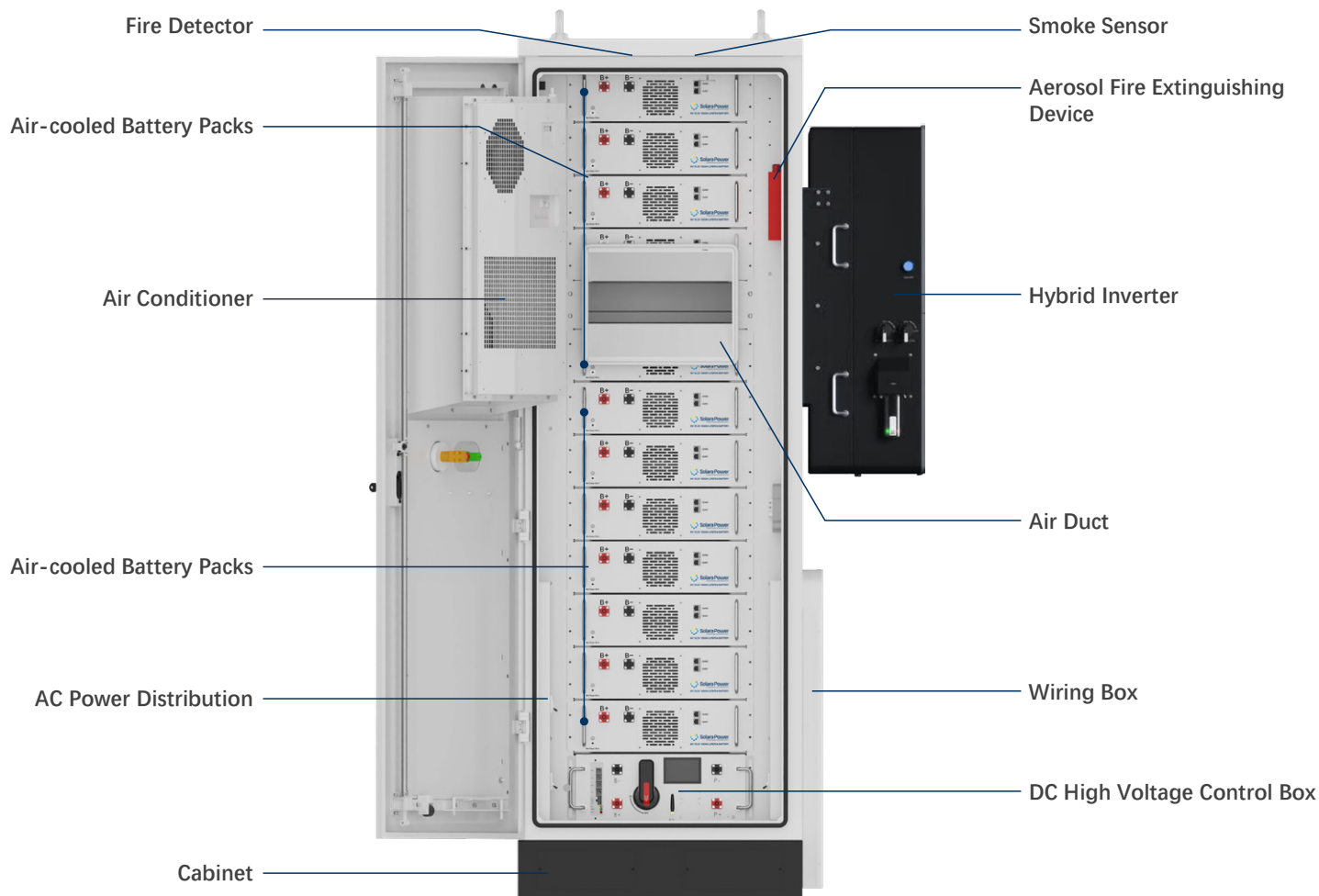


Convenience Stores  
at Gas Stations



Small Factories

# System Structure



# Technical Specifications

Model	SP-BESS-R40K-R	SP-BESS-R60K-R
<b>System Technical Specifications</b>		
Nominal Energy	40.96 kWh	61.44 kWh
Nominal DC Voltage	409.6 V	614.4 V
Number of Battery Pack	8	12
Dimensions (W x D x H) (no contain inverter)	735*1125*2,220 mm	
Weight (no contain inverter)	612.8 kg	780.8 kg
Enclosure Rating	IP55	
Cooling Method	Intelligent Air-cooled Air conditioner	
Communication Port	Wi-Fi & LAN Hardware Included	
Warranty	10-Year	
Certification (Battery)	UL 1773, UL9540, UL9540A, IEC62109, UN38.3, MSDS	
Certification (Inverter)	UL 1741-2021 (UL1741SB), CSA C22.2 No 107.1-16, IEEE 1547-2018 & 1547a-2020 & 1547.1-2020 (SRD V2.0), UL 1741 CRD-PCS, UL1699B, CEC, SGIP, CSIP	

<b>Battery Model</b>	<b>GSL-51-100</b>	
Battery Chemistry	LiFePO4	
Battery Energy	5.12 kWh	
Battery Nominal Voltage	51.2 V	
Battery Capacity	100 Ah	
Max. Battery Charge / Discharge Current	100 A	
Operating Temperature Range	Charge: 0 ~ 55°C / Discharge: -20°C ~ 55°C	
Cycle Life	≥6,500 (@25°C ± 2°C, 0.5 C / 0.5 C, 70% EOL)	

<b>Inverter Model</b>	<b>30K-3P-208V</b>	<b>60K-3P-480V</b>
<b>Battery Input Data (DC)</b>		
Battery Chemistry	Lithium-ion	
No. of Battery Inputs	2	
Battery Input Terminal Rating	50 A	
Nominal DC Voltage	≥ 300 V	≥ 600 V
Operating Voltage Range	160 ~ 500 V	160 ~ 700 V
Battery Capacity Range	50 — 9900 Ah	

<b>Input Data (PV)</b>		
Max. Allowed PV Power (STC)	39,000 W	78,000 W
MPPT Voltage Range	150 ~ 500 V	150 ~ 850 V
Startup Voltage	180 V	180 V
Max. Input Voltage	500 V	1,000 V
Max. operating input current per MPPT	36 A	36 A
Max. short circuit current per MPPT	55 A	55 A
No. of MPP Trackers	4	
No. of PV Strings per MPPT	2	
Max. AC Coupled Input Power	30,000 W	60,000 W

<b>Output Data (AC)</b>		
Nominal AC Voltage (3Φ)	120/208 V	277/480 V
Grid Frequency	50 / 60 Hz	
Real Power, max continuous (3Φ)	30,000 W	60,000 W
Max. Output Current	83.4 A	72.3A
Peak Apparent Power (10s, off-grid, 3Φ)	45,000 VA	90,000VA
Max. Grid Passthrough Current (10min)	200 A	
Continuous Grid Passthrough Current	180 A	
Power Factor Output Range	+/- 0.8 adjustable	
Backup Transfer Time	5ms (adjustable)	
CEC Efficiency	96.5%	
Max Efficiency	97.5%	
Design (DC to AC)	Transformerless DC	
Stackable	Up to 10 in parallel	

If the size and parameters of the product are changed, the latest information will prevail without further notice.