OSP BATTERY®

All-in-One Stackable Home Energy System

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Introducing Our Low-Voltage All-in-One Stackable Home Energy System

We proudly present our low-voltage, All-in-One stackable home energy system, which includes a high-performance inverter and supports up to four stackable modules.

This system utilizes high-performance Lithium Iron Phosphate (LFP) cells for exceptional safety and reliability, boasting strong durability. Its simple and elegant design ensures a seamless integration into any home environment.

The integrated battery pack module, built with advanced LFP cells, allows for flexible stacking of 1 to 4 modules. This design effectively manages large charging and discharging currents, making it perfectly suited for solar energy storage systems and general electrical energy storage and supply.

Furthermore, equipped with a high-performance Battery Management System (BMS) for real-time monitoring, along with Wi-Fi, RS232, and RS485 communication interfaces, and broad compatibility with various products, it stands as the optimal choice for home applications.

• Simplified Installation

For your utmost convenience, each module is equipped with quick-release connectors on both its upper and lower sections, which dramatically streamlines the installation process and greatly improves overall user experience.

• Exceptional Durability

Our system is meticulously crafted from specially engineered steel, ensuring superior robustness and an extended lifespan for enhanced durability and reliable long-term use.

• Safety and Reliability

Equipped with an intelligent Battery Management System (BMS), our solution ensures a stable and exceptionally reliable power supply.

• Excellent Compatibility

Seamlessly integrate with a wide range of existing devices and systems through Wi-Fi and RS485 communication interfaces.

• Flexible Capacity Expansion

Achieve flexible capacity expansion with 21.5 kWh per 4-layer cluster. For even greater energy needs, further capacity can be unlocked through parallel connections.

GSP BATTERY®

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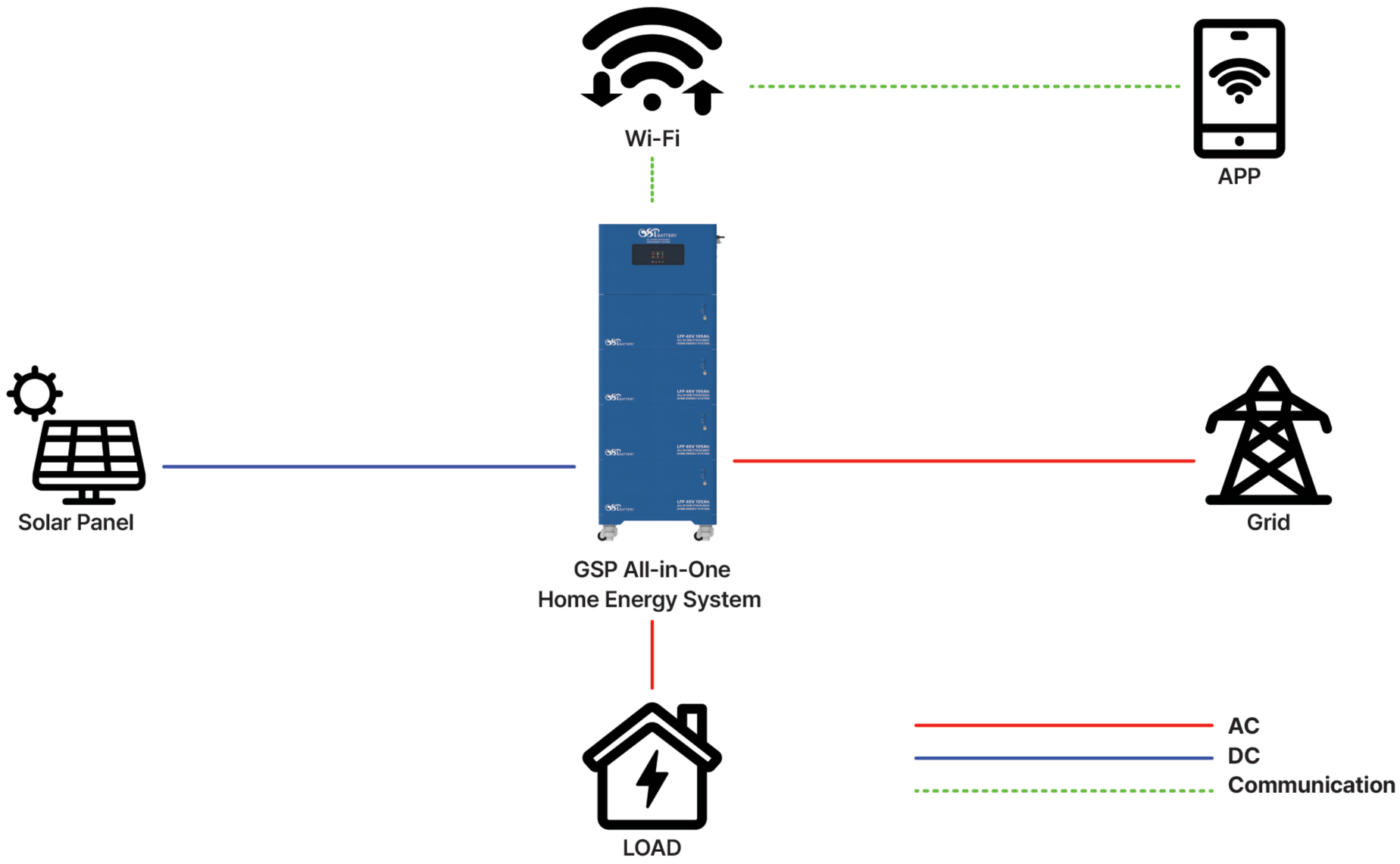
• Product Topology



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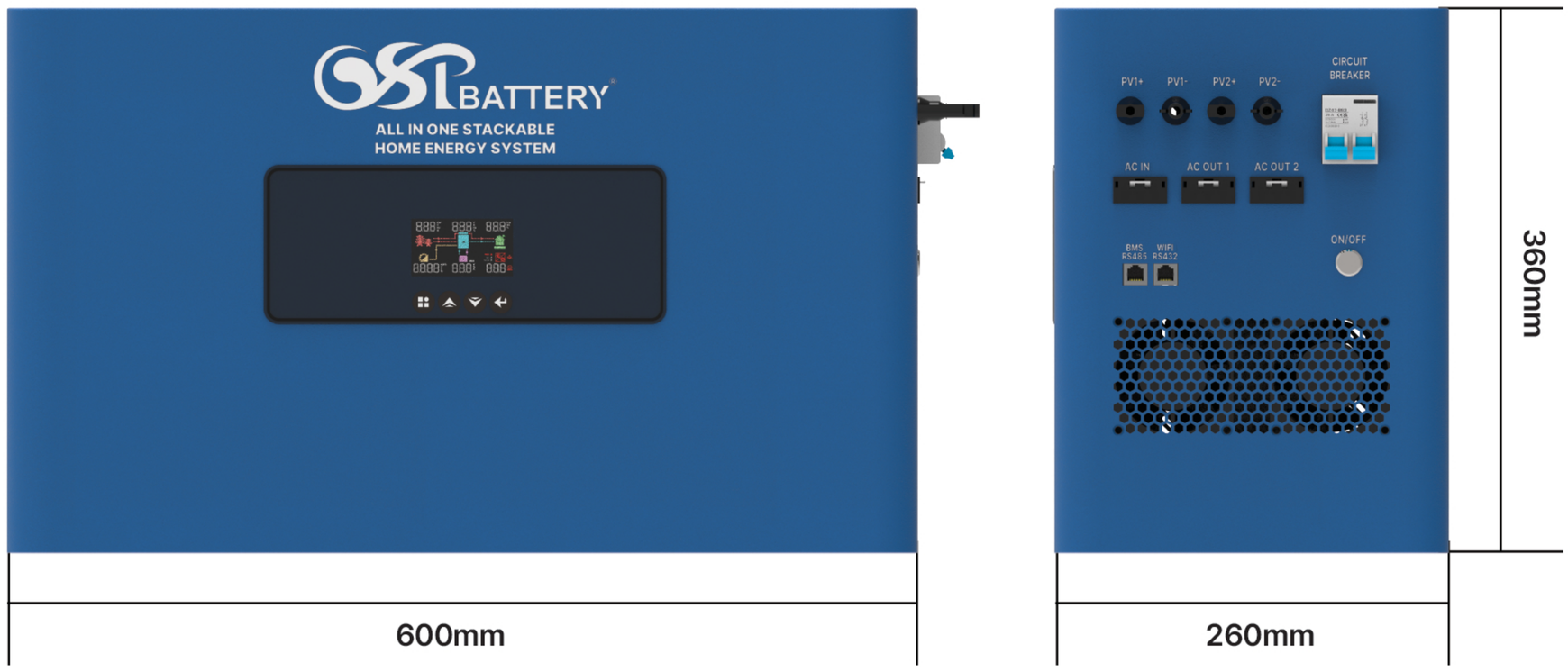
System Parameter				
				
Optimal Inverter Power	6.2kW			
Battery Modual	1 Layer	2 Layer	3 Layer	4 Layer
Energy	5,376Wh	10,752Wh	16,128Wh	21,504Wh
Nominal Capacity	105Ah	210Ah	315Ah	420Ah
IP Grade	IP20			
Cooling Method	Forced Air Cooling			
Operating Temperature Range	0°C ~ 45°C			
Storage Temperature Range	-20°C ~ 60°C			
In Port	PV / AC In			
Out Port	AC Out			
Safety Features	Circuit Breaker			
Communication	Wi-Fi / RS232 / RS485			
Weight	About 75kg	About 127kg	About 179kg	About 230kg
Dimension	600 X 260 X 772mm	600 X 260 X 1052mm	600 X 260 X 1332mm	600 X 260 X 1612mm

Charging Parameter	
Nominal Battery Voltage	48V(LFP Recommended)
Charging Algorithm	3-Step Charging
Max. AC Charging Current	100A (@230V)
Bulk Charging Voltage (Flooded Battery)	58.4V
Bulk Charging Voltage (AGM/Gel Battery)	56.4V
Floating Charging Voltage	54V
Max. Solar Input	6500W
Solar MPPT Voltage Range	60~500V
Max. Solar Open Cirvuit Voltage	500V
Max. Total Charging Current (AC Charger + Solar Charger)	120A

Inverter Parameter	
Rated Output Power	6200W
Output Voltage Waveform	Pure Sine Wave
Output Voltage Range	230V ± 5%
Output Frequency	50Hz
Maximum Efficiency	93%
Overload Protection	Allows 150% load for 3S ; 101~150% for 5S
Surge Capacity	Twice the Rated Power for 5S
Rated DC Input Voltage	48V
Cold Start Voltage	46.0V
Low DC Warning (Below 50% load)	44.0V
Low DC Warning (Equal or above 50% load)	42.0V
Low DC Warning Return (Below 50% load)	45.0V
Low DC Warning Return (Equal or above 50% load)	44.0V
Low DC Cut-off (Below 50% load)	41.0V
Low DC Cut-off (Equal or above 50% load)	40.0V
High DC Recovery Voltage	62V
Hifh DC Cut-off Voltage	63V
No Load Power Consumption	50W
Weight	About 9kg
Dimension	

Battery Parameter	
Battery Type	LFP(LiFePO4)
Rated Battery Voltage	51.2V
Nominal Capacity	105Ah
Energy	5,376Wh
Recommended Charge Current	50A
Recommended Discharge Current	50A
Max. Charging Current	100A
Max. Discharging Current	100A
Weight	About 52kg
Dimension