



## Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan, high efficiency and high-power density. Intelligent BMS, providing complete protection.



## Reliable

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



## Flexible

Modular design, easy to expand, Max capacity of 100kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.



## Convenient

Battery module auto networking, Automatic IP addressing, easy maintenance, remotely monitoring and upgrade, support CAN upgrade the firmware.



## Eco-Friendly

Use environmental protection materials, the whole module non-toxic, pollution-free.



## Multiple Installation Options

Wall-mounted, cabinet-mounted, floor-mounted, free design, suitable for different needs at the scene, and installation is simple and convenience.



# QS LV100S

## Technical Data Main Parameter

Model	QS LV100S	2*QS LV100S	3*QS LV100S	4*QS LV100S
Total Energy [kWh]	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Battery Module	LV100S 51.2V 5.12kWh			
Number of Modules	1	2	3	4
Cell Type	LFP( LiFePO4 )			
Nominal Voltage [V]	51.2V	51.2V	51.2V	51.2V
Operating Voltage Range [V]	40-58.4V	40-58.4V	40-58.4V	40-58.4V
Max Charge/ Discharge Current [A]	100A	100A	100A	100A
Dimension [W/D/H mm]	610*416*240mm	610*416*430mm	610*416*620mm	610*416*810mm
Weight Approximate [KG]	60KG	115KG	170KG	225KG

## Other Parameter

Recommend Depth of Discharge	90%
LED Indicator	4 LED (SOC: 25%~100%, SOC blue), 2 LED (working green, alarming red)
IP Rating of Enclosure	IP40 (Indoor) & IP65 (Outdoor)
Operating Temperature	Charge: 0°C~50°C / Discharge: 0°C~50°C
Storage Temperature	0°C~35°C
Humidity	95%
Altitude	≤2000m
Cycle Life	10+years, 6000 cycles (90% DOD, 25°C)
Installation	Floor-mounted, Stack
Communication Port	Can2.0, RS485
Certification	UN38.3, IEC62619, UL1973

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.

### Introduction



Queen Solar Residential Li-ion Battery System QS LV100S is a low 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 in door 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 and longer power supporting duration requirements.

## System Components

Model		
<b>QS LV100S</b>	<b>Battery System</b>	
Battery Type	Life PO4 ( LFP )	
Nominal Voltage	51.2V	
Nominal Capacity	100Ah	
Nominal Energy	5.12kWh	
Max.Charge / Discharge Current	100A	
Operating Temperature	0°C ~ 50°C	
Storage Temperature	0°C ~ 35°C	
Ingress Protection	IP40 (Indoor) & IP65 (Outdoor)	
Dimension [ W / D / H ]	610*416*190 mm	
Weight Approximate	55KG	
<b>QS LV100S</b>	<b>Base</b>	
Dimension [ W / D / H ]	610*416*50mm	
Weight Approximate	5KG	