

Low Voltage Lithium-ion Battery



QS LV10-01

- Max. 4 parallel operating in a system
- Remote diagnosis and real-time data monitoring
- IP65(Suitable for outdoor scenes)
- Double protection

QS LV10-01 (QS Residential Li-ion Battery) is a low-voltage integrated energy storage battery, for household energy storage and grid outage backup. Compact design with flexible indoor/outdoor installation. Built-in high-performance BMS monitors cell voltage, current and temperature, and balances charge/discharge to extend cycle life. Supports up to 4 parallel packs for capacity/power expansion, meeting high-power, space-limited and long-term stable operation needs.



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



Supports multi-unit parallel with flexible capacity for diverse needs.



Support high discharge power, inter-cell balancing.



Whole module non-toxic, pollution-free.



Support snapshot function for fault analysis and historical data records.



Remotely monitoring and upgrade, support IOT function, DTC function.

QS LV10-01



Model	QS LV10-01	2× QS LV10-01	3× QS LV10-01	4× QS LV10-01
Schematic Drawing				
Total Energy [kWh]	10.55	21.09	31.64	42.19
Battery Module	51.2V 10.55kWh			
Number of Modules	1	2	3	4
Cell Type	LFP(LiFePO ₄)			
Nominal Voltage [V]	51.2			
Operating Voltage Range [V]	40-58.4			
Max. Charge/Discharge Current [A]	200	350	350	350
Continue Discharge Output [kW]	10.24	17.92	17.92	17.92
Dimensions [W*D*H mm]	580*240*710			
Approximate Weight [KG]	90	180	270	360

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°C-50°C/Discharge: -20°C-50°C
Storage Temperature	0°C - 35°C
Humidity	≤ 95%
Altitude	≤ 3000m
Cycle Life	10 + years, ≥ 6000 cycles (70 % EOL,80 % DOD,25 °C)
Installation	Floor Mount
Communication Port	CAN
Certification	

The current is affected by temperature and SOC.

Module

QS LV10-01

Battery Type	LFP(LiFePO ₄)
Nominal Voltage	51.2V
Nominal Capacity	206Ah
Nominal Energy	10.55kWh
Max. Charge / Discharge Current	200A
Operating Temperature	Charge: 0°C-50°C/Discharge: -20°C-50°C
Storage Temperature	0°C - 35°C
Ingress Protection	IP65
Dimension [W / D / H]	580*240*710mm
Weight Approximate	90KG

Battery System



Research and Development Version-Not Final Specifications