



QCLENERGY

15kWh (51.2V/314Ah)

Product Features



Class-A LiFePO4 Battery

Cycle Life 6000+

High Safety and Performance



Intelligent BMS

50+ Protection Algorithms for Safety and Longer Lifespan

Number of Parallel: 15



High Compatibility

Self-adaptive Communication with Mainstream Inverter

Model	QCL-51.2-314	Mobile ESS Battery
Battery Type	LiFePO ₄ (LFP) – A Grade Cells	
Nominal Voltage	51.2 V	
Nominal Energy	16.0768 kWh	
Nominal Capacity	314 Ah	
Operating Voltage Range	40 V ~ 58.4 V	
Standard Charging Current	150 A	
Maximum Continuous Charging Current	200 A	
Cut-Off Charging Voltage	58.4 V	
Cut-Off Charging Current	2 A	
Standard Discharging Current	150 A	
Maximum Continuous Discharging Current	200 A	
Maximum Pulse Discharging Current	300 A	
Cut-Off Discharging Voltage	40 V	
Cut-Off Discharging Current	2 A	
Dimensions (L×W×H)	820 mm × 400 mm × 235 mm (excluding casters)	
Weight	≈137 kg	
Communication Port	RS485 / CAN / RS232	
Maximum Parallel Units	15	
Working Temperature (Charge)	0 °C~ 55 °C	
Working Temperature (Discharge)	-20 °C ~ 60 °C	
Ingress Protection	IP20	
Cooling Method	Natural Cooling	
Humidity Range	10 % ~ 95 %	
Altitude	≤2000 m	
Shell Material	Metal	
Current Limiting Function	20 A	
Precharge Function	Enabled	
Display	LED	
Cell Configuration	1P16S	
Design Life	10 Years	
Cycle Life	>6000 cycles (@25 °C, 0.5 C, 80 % DOD)	
Certification Level	IEC62619 \ UN38.3 \ MSDS \ DGM	