

48V Lithium-ion(LiFeP04) Power Battery



KEY FEATURES

Nominal Voltage: 51.2V

Capacity: 100-1120Ah, Customizable

Dimensions: Standard or Customizable

IP Grade: IP65

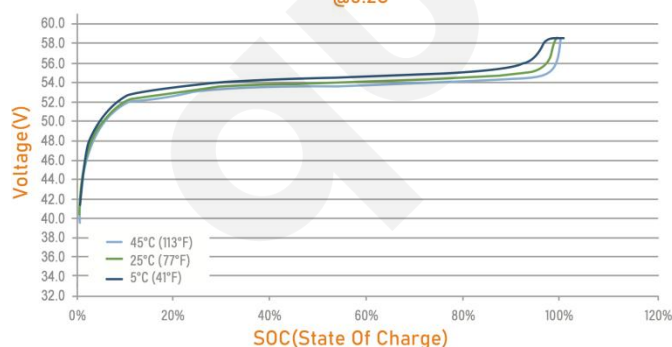
Cell Chemistry: Lithium Iron Phosphate (LiFeP04)

Remote Monitoring: 4G Optional

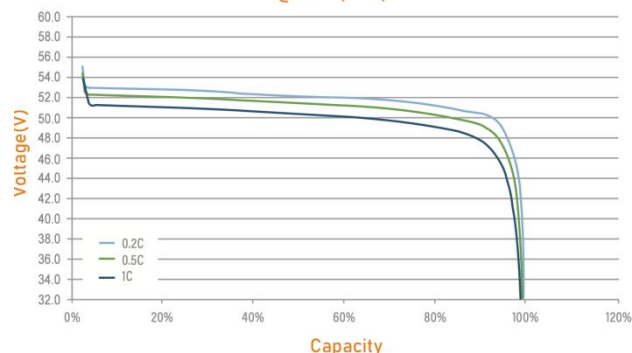
Lifespan: >3500 cycles @80% DoD, 25°C(77°F), 0.5C



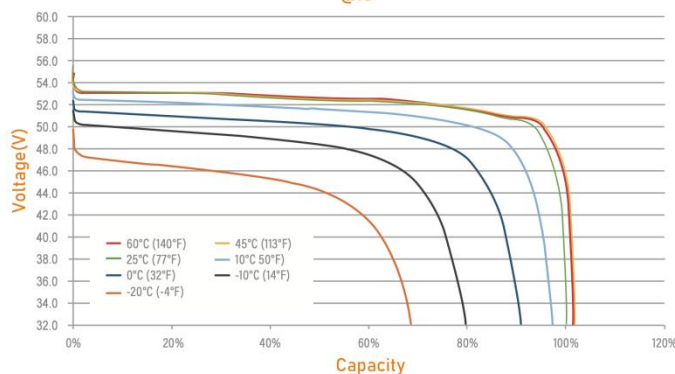
Voltage Change at Different Temperature During Charging
@0.2C



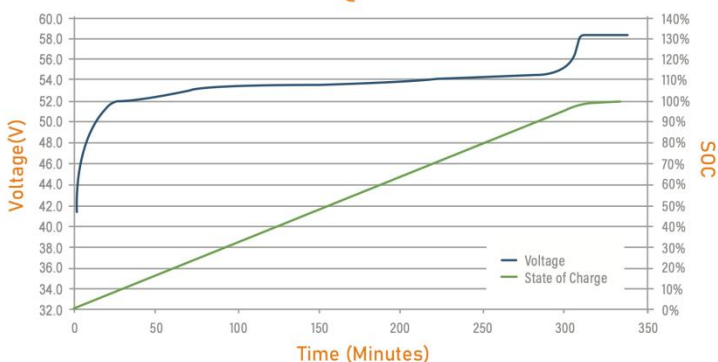
Voltage Change at Different C-Rate During Discharging
@25°C (77°F)



Dischargeable Energy Capacity Change at Different Temperature
@1C



Voltage and SOC Change During Charging
@0.2C



Specifications

Model	QL48-230	QL48-304	QL48-346	QL48-404 T/S	QL48-460 T/S	QL48-560
Electrical						
Nominal Voltage	51.2 V					
Operation Voltage	40 – 58.4 V					
Rated Capacity	230 Ah	304 Ah	346 Ah	404 Ah	460 Ah	560 Ah
Rated Energy	11.78 kWh	15.56 kWh	17.72 kWh	20.68 kWh	23.55 kWh	28.67 kWh
Suggested DoD	< 90%					
Max DoD	100%					
Self-Discharge	< 3% per Month					
Cells Type	LiFePO4 Prismatic					
Cell Model	3.2 V 230 Ah	3.2 V 304 Ah	3.2 V 173 Ah	3.2 V 202 Ah	3.2 V 230 Ah	3.2 V 280 Ah
Cells Configuration	16S1P	16S1P	16S2P	16S2P	16S2P	16S2P
Balancing	60 mA, Passive Balancing					
Charge						
Charge Voltage	57.6 V					
BMS Charge Voltage Cut-Off	57.6 V					
Recommended Charge Current	< 120 A	< 150 A	< 170 A	< 200 A	< 200 A	< 200 A
Max. Continuous Charge Current	200 A	200 A	200 A	200 A	200 A	200 A
Charge Temperature	0 – 55 °C (32 – 131 °F)					
Discharge						
Recommended Discharge Current	< 120 A	< 150 A	< 170 A	< 200 A	< 230 A	< 280 A
Max. Continuous Discharge Current	200 A	300 A	300 A	400 A	400 A	400 A
Peak Discharge Current	400 A @ 30S	600 A @ 30S	600 A @ 30S	600 A @ 30S	600 A @ 30S	600 A @ 30S
Recommended Low Voltage Cut-Off	46.4 V					
BMS Discharge Voltage Cut-Off	40 V					
Discharge Temperature	-20 – 60 °C (-4 – 140 °F)					
Mechanical						
Dimensions	956 * 375 * 555 mm (37.64 * 14.76 * 21.85 inch)	956 * 375 * 555 mm (37.64 * 14.76 * 21.85 inch)	800 * 420 * 405 mm (31.50 * 16.54 * 15.94 inch)	T: 800 * 420 * 620 mm (31.5 * 16.54 * 24.41 inch) S: 800 * 500 * 405 mm (31.5 * 19.69 * 15.94 inch)	T: 800 * 420 * 620 mm (31.5 * 16.54 * 24.41 inch) S: 800 * 500 * 405 mm (31.5 * 19.69 * 15.94 inch)	800 * 450* 670 mm (31.5 * 17.72 * 26.38 inch)
Weight	156 kg (346.13 lbs)	167 kg (368.17 lbs)	170 kg (374.79 lbs)	T: 228 kg (502.65 lbs) S: 216 kg (476.2 lbs)	T: 240 kg (529.11 lbs) S: 226 kg (498.25 lbs)	280 kg (617.29 lbs)
Terminal Type	Charge: REMA, Discharge: Anderson					
Case Material	Powder Coated Steel					
Enclosure Protection	IP65					
Communication						
LCD Screen	Yes	Yes	Yes	Yes	Yes	Yes
Bluetooth	No	No	No	No	No	No
CAN	Yes	Yes	Yes	Yes	Yes	Yes
4G	Optional	Optional	Optional	Optional	Optional	Optional
WiFi	Optional	Optional	Optional	Optional	Optional	Optional
Safety And Warranty						
Protection Function	Overcharge, Over-discharge, Over current, Short Circuit, Over Temperature, Under Temperature					
Storage	0 – 40 °C (32 – 104 °F), < RH 80%, > 60% SOC					
Warranty	5 Years					
Lifespan	10 years or 3500 Cycles @ 25°C, 80% EOL					
Certificates	CE, RoHS, UN38.3, IEC, MSDS					

1. All specifications shown above are subject to change during products improving at any time without prior notice.
2. For other batteries not listed above, customization is also available.