

80V Lithium-ion(LiFePO4) Power Battery



KEY FEATURES

Nominal Voltage: 83.2V

Capacity: 100-1120Ah, Customizable

Dimensions: Standard or Customizable

IP Grade: IP65

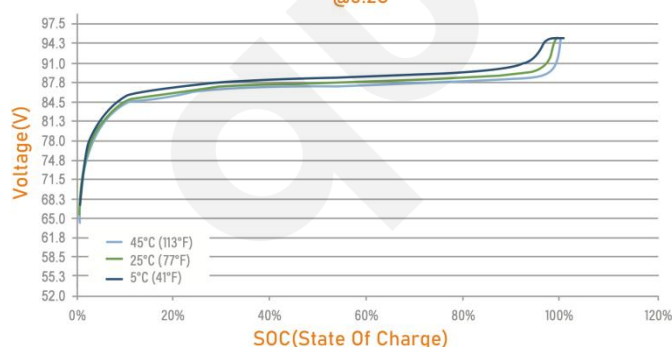
Cell Chemistry: Lithium Iron Phosphate (LiFePO4)

Remote Monitoring: 4G Optional

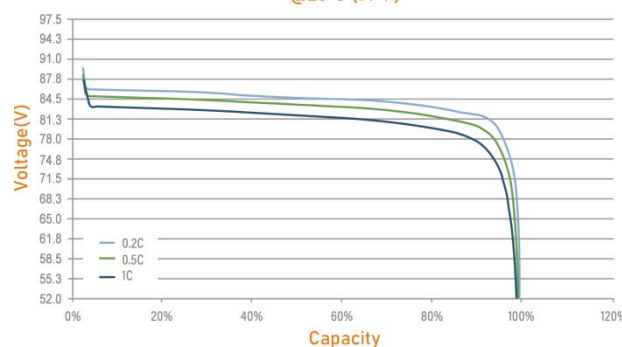
Lifespan: >3500 cycles @80% DoD, 25°C(77°F), 0.5C



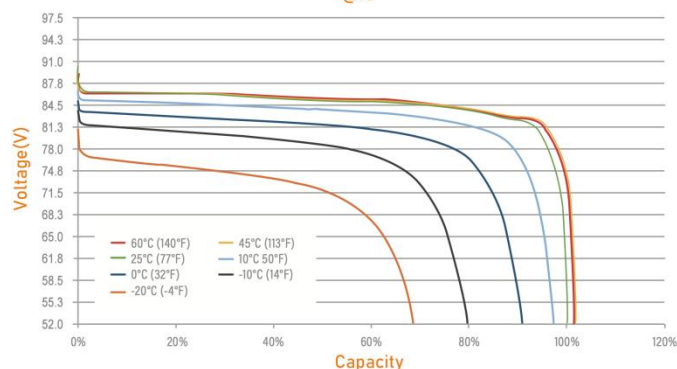
Voltage Change at Different Temperature During Charging
@0.2C



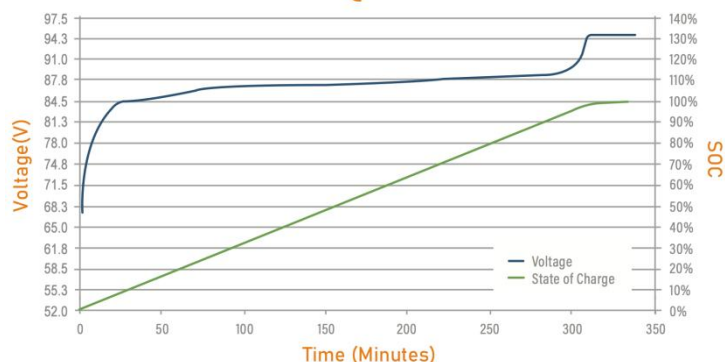
Voltage Change at Different C-Rate During Discharging
@25°C (77°F)



Dischargeable Energy Capacity Change at Different Temperature
@1C



Voltage and SOC Change During Charging
@0.2C



Specifications

Model	QL80-304		QL80-346	QL80-404	QL80-460
Electrical					
Nominal Voltage	83.2 V				
Operation Voltage	65- 94.9 V				
Rated Capacity	304 Ah	346 Ah	404 Ah	460 Ah	
Rated Energy	25.29 kWh	28.79 kWh	33.61 kWh	38.27 kWh	
Suggested DoD	< 90%				
Max DoD	100%				
Self-Discharge	< 3% per Month				
Cells Type	LiFePO4 Prismatic				
Cell Model	3.2 V 304 Ah	3.2 V 173 Ah	3.2 V 202 Ah	3.2 V 230 Ah	
Cells Configuration	26S1P	26S2P	26S2P	26S2P	
Balancing	60 mA, Passive Balancing				
Charge					
Charge Voltage	93.6 V				
BMS Charge Voltage Cut-Off	93.6 V				
Recommended Charge Current	< 150 A	< 170 A	< 200 A	< 200 A	
Max. Continuous Charge Current	200 A	200 A	200 A	200 A	
Charge Temperature	0 - 55 °C (32 - 131 °F)				
Discharge					
Recommended Discharge Current	< 150 A	< 170 A	< 200 A	< 230 A	
Max. Continuous Discharge Current	300 A	300 A	400 A	400 A	
Peak Discharge Current	600 A @ 30S	600 A @ 30S	600 A @ 30S	600 A @ 30S	
Recommended Low Voltage Cut-Off	75.4 V				
BMS Discharge Voltage Cut-Off	65 V				
Discharge Temperature	-20 - 60 °C (-4 - 140 °F)				
Mechanical					
Dimensions	980 * 600 * 464 mm (38.58 * 23.62 * 18.27 inch)	980 * 600 * 430 mm (38.58 * 23.62 * 16.93 inch)	980 * 600 * 550 mm (38.58 * 23.62 * 21.65 inch)	980 * 600 * 550 mm (38.58 * 23.62 * 21.65 inch)	
Weight	225 kg (496.04 lbs)	284 kg (626.11 lbs)	365 kg (804.69 lbs)	386 kg (850.98 lbs)	
Terminal Type	Charge: REMA, Discharge: Anderson				
Case Material	Powder Coated Steel				
Enclosure Protection	IP65				
Communication					
LCD Screen	Yes	Yes	Yes	Yes	
Bluetooth	No	No	No	No	
CAN	Yes	Yes	Yes	Yes	
4G	Optional	Optional	Optional	Optional	
WiFi	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.