



MAXON

QUANTIUM

PRISMATIC CELL LIFEPO4

BY MAXON



GENERAL FEATURES

- High Cycle Life 5,000+ cycle @ 50% DOD
- More economical than AGM / Gel batteries
- A+ Quality prismatic cells
- In built-in over-charge and over-discharge protection
- 36-month warranty back by local Australian owned and operated business
- Australia designed
- Designed for AGM replacement
- Can be parallel up to 4 batteries
- Can be connected in series to 51.2V
- Vibration resistant design

COMPLIED STANDARDS

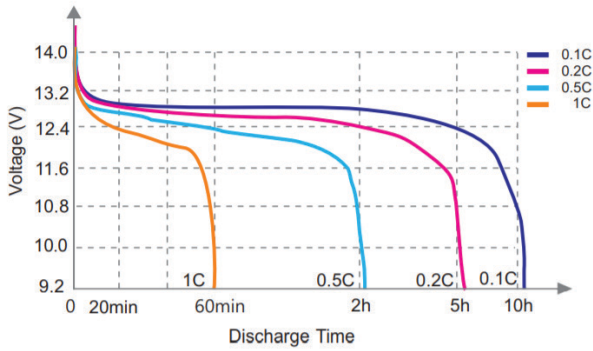
UN38.3	IEC60896
ISO9001	CE
ISO14001	UL
ISO45001	UL 1642
IEC62133	

PRODUCT CATALOGUE

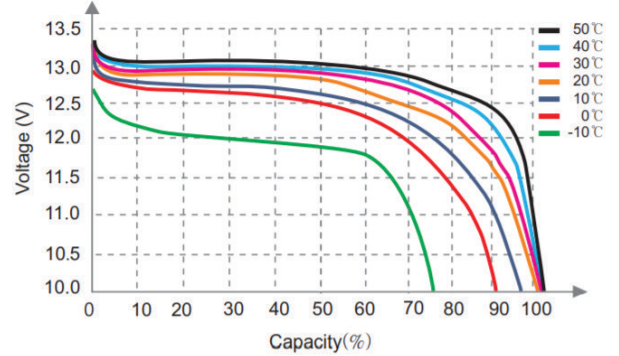
Model	Q-LBS12100	Q-LBS12150	Q-LBS24100	
Electrical Characteristics	Nominal Voltage	12.8V	12.8V	25.6V
	Nominal Capacity @0.2C	100Ah	150Ah	100Ah
	Energy	1280Wh	1920Wh	2560Wh
	Internal Resistance	20.0mΩ	18.0mΩ	55.0mΩ
	Cycle Life	>2000 Cycles @ 0.1C Charge/Discharge at 100% DOD @ 25°		
	Months Self Discharge	<3% @ 25° per Month		
Standard Charge	Charge Voltage	14.4 -14.8V		28.8-29.6V
	Charge Mode (CC/CV)	At 0 °~55° temperature, 12V charged to 14.6V for 12V or 29.2V for 24V at a constant current of 0.2C5A, and then,changed continuously with constant voltage of 14.6V for 12V or 29.2V for 24V until the current was not more than 0.02C5A.		
	Charger Current	25A	37.5A	25A
	Max.Charge Current	100A	150A	100A
Standard Discharge	Max. Continuous Current	100A	150A	100A
	Max.Pulse Current	200A(<3S)	300A(<3S)	200A(<3S)
	Discharge Cut-off Voltage	10.0V	10.0V	20.0V
Enviorment	Charge Temperature	- 0°C to 55°C @60±25% Relative Humidity		
	Discharge Temperature	- 20°C to 60°C @60±25% Relative Humidity		
	Storage Temperature	- 20°C to 45°C @60±25% Relative Humidity		
	Water Dust Resistance	IP55		
Mechanical	Cell & Method	Prismatic 3.2V 100Ah 4S1P	Prismatic 3.2V 150Ah 4S1P	Prismatic 3.2V 100Ah 8S1P
	Casing	ABS	ABS	ABS
	Dimension(L*W*H*THmm)	335 x 172 x 215		552 x 240 x 223
	Approx. Weight	11.3Kg	14.2Kg	21.9Kg
	Terminal	M8		

PERFORMANCE CHARACTERISTICS

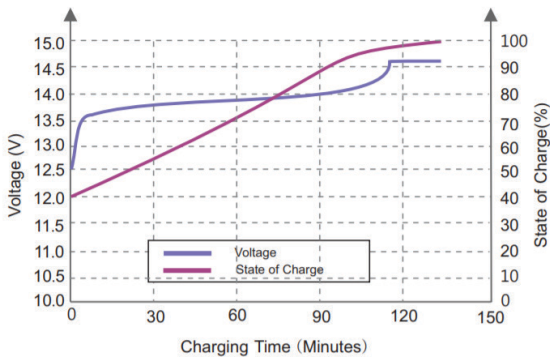
Different Rate Discharge Curve(25°C)



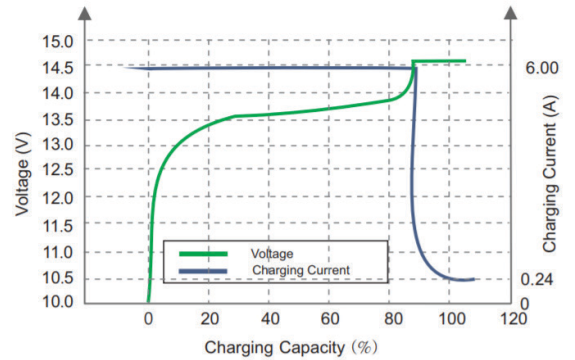
Temperature Discharge Curve(0.5C)



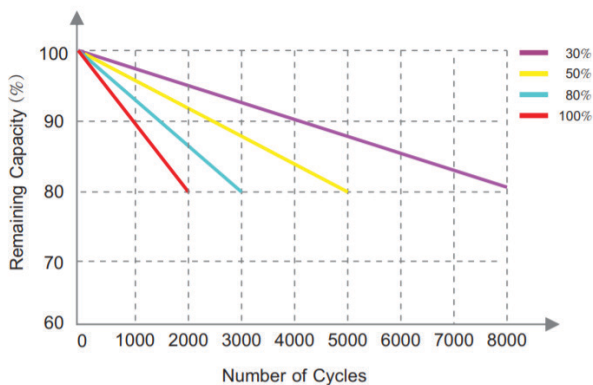
State of Charge Curve(0.5C, 25°C)



Charging Characteristics(0.5C, 25°C)



Different DOD Discharge Cycle Life Curve(1C)



Different Temperature Self Discharge Curve

