



MAXON

QUANTIUM

SLIM LINE LITHIUM IRON PHOSPHATE

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
- 60-month warranty back by local Australian owned and operated business
- Slim compact design
- Can be parallel up to 4 batteries
- Can be connected in series to 51.2V
- Built-in LCD screen volt meter
- Space saving design

COMPLIED STANDARDS

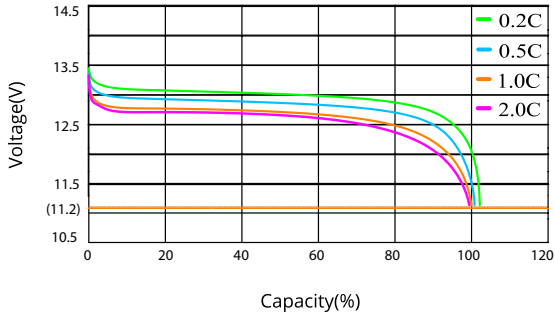
ISO9001	CE
ISO14001	UL
UN38.3	IEC62133

PRODUCT CATALOGUE

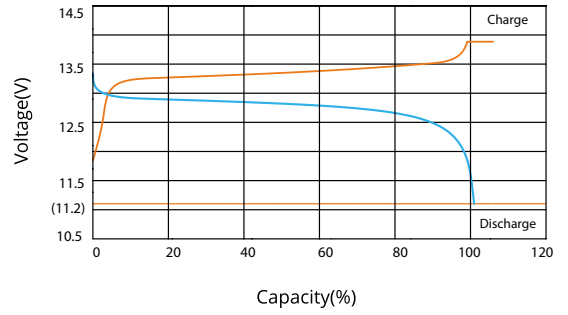
Model	Q-LBS12100S	Q-LBS12100S-HD	Q-LBS12200S	
Electrical Characteristics	Nominal Voltage	12.8V	12.8V	12.8V
	Nominal Capacity @0.2C	100Ah	100Ah	200Ah
	Energy	1280Wh	1280Wh	2560Wh
	Internal Resistance	10.0mΩ	10.0mΩ	10.0mΩ
	Cycle Life	>5000 Cycles @ 0.1C Charge/Discharge at 50%DOD @ 25°		
	Months Self Discharge	<3.5% @ 25° per Month		
Standard Charge	Charge Voltage	14.4 -14.8V		28.8-29.6V
	Charge Mode (CC/CV)	At 0 °~45° 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	25A	50A
	Max. Charge Current	100A	100A	100A
Standard Discharge	Max. Continuous Current	100A	200A	200A
	Max. Pulse Current	200A(<5S)	300A(<5S)	300A(<10S)
	Discharge Cut-off Voltage	10.0V	10.0V	20.0V
Environment	Charge Temperature	-0°C to 45°C @60±25% Relative Humidity		
	Discharge Temperature	-20°C to 60°C @60±25% Relative Humidity		
	Storage Temperature	0°C to 45°C @60±25% Relative Humidity		
	Water Dust Resistance	n/a	n/a	n/a
Mechanical	Cell & Method	SL4576B Prismatic 3.2V 100Ah 4S1P	SL4576B Prismatic 3.2V 100Ah 4S1P	SL4576B Prismatic 3.2V 100Ah 4S1P
	Casing	ABS	ABS	ABS
	Dimension(L*W*H*THmm)	600 x 50 x 270	600 x 50 x 270	850 x 70 x 275
	Approx. Weight	13.5Kg	13.5Kg	25Kg
	Terminal	2 x 120A Connectors	2 x 120A Connectors	2 x 175A Connectors

PERFORMANCE CHARACTERISTICS

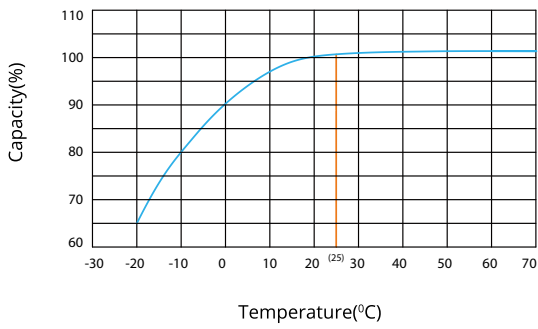
Discharge Performance at 25°C



Charge and Discharge at 25°C, 0.25



Temperature Effects on Capacity at 0.25C



Cycle Life with DOD at 25°C 2C Discharge and 0.5C Charge

