



QUANTIUM

LITHIUM-IRON PHOSPHATE
BY MAXON



GENERAL FEATURES

- High cycle life 5000 @ 50% DOD
- More economical than AGM / Gel batteries
- Safest lithium chemistry with high energy
- In built-in over-charge and over-discharge protection
- 36-month warranty back by local Australian owned and operated business
- Internal cell balancing
- Can be connected in series to 51.2V
- Can be connected in parallel up to 4 batteries
- Drop-in replacement for lead-acid batteries
- Lightweight

COMPLIED STANDARDS

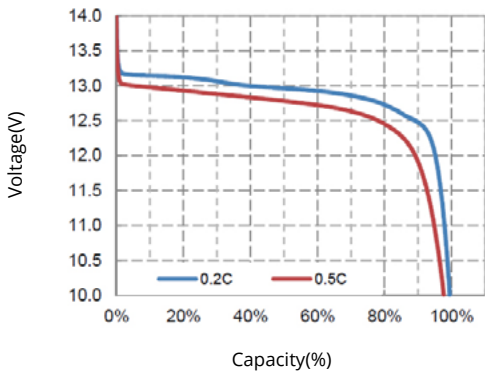
ISO9001	CE
ISO14001	BIS
UN38.3	UL
IEC62133	RoHS

PRODUCT CATALOGUE

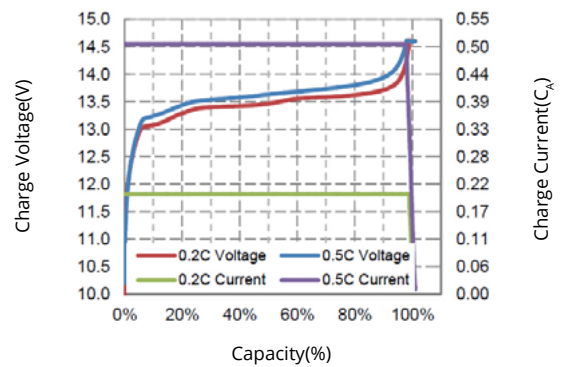
Model	Q-LFP1212	Q-LFP1224	Q-LFP1242	Q-LFP1254	Q-LFP12100	Q-LFP12150	Q-LFP12200	Q-LFP2454	Q-LFP24100	
Electrical Characteristics	Nominal Voltage	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	12.8V	25.6V	25.6V
	Nominal Capacity @0.2C	12Ah	24Ah	42Ah	54Ah	100Ah	150Ah	200Ah	54Ah	100Ah
	Energy	153.6Wh	307.2Wh	537.6Wh	691.2Wh	1280Wh	1920Wh	2560Wh	1280Wh	2560Wh
	Internal Resistance	70.0mΩ	60.0mΩ	50.0mΩ	50.0mΩ	45.0mΩ	40.0mΩ	35.0mΩ	45.0mΩ	≈30.0mΩ
	Cycle Life	>2000 Cycles @ 0.2C Charge/Discharge at 100%DOD, End of Life 70% Capacity.								
	Months Self Discharge	≤3.5% per month at 25°C								
Standard Charge	Charge Voltage	14.6±0.2V						29.0 - 29.4V		
	Charge Mode (CC/CV)	At 0 -45 temperature, charge at a constant current of 0.2C @ 14.6V for 12V or 29.2V for 24V and then, charge continuously with constant voltage of 14.6V for 12V or 29.2V for 24V until the current was not more than 0.02C								
	Charger Current	2.4A	4.8A	8.4A	10.8A	20A	30A	40A	10A	20A
	Max.Charge Current	6A	12A	21A	27A	50A	75A	100A	27A	50A
Standard Discharge	Max. Continuous Current	12A	24A	42A	54A	100A	100A	100A	54A	100A
	Max.Pulse Current	30A(<3S)	60A(<3S)	60A(<3S)	120A(<3S)	200A(<3S)	200A(<3S)	200A(<3S)	120A(<3S)	200A(<3S)
	Discharge Cut-off Voltage	10.0V	10.0V	10.0V	10.0V	10.0V	10.0V	10.0V	20A	20A
Environmental	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	IP55								
Mechanical	Cell & Method	IFR32700 N60,4S2P	IFR32700 N60,4S4P	FR32700 N60, 4S7P	FR32700 N60, 4S9P	FR32700 N60, 4S17P	FR32700 N60, 4S25P	FR32700 N60, 4S34P	FR32700 N60, 8S9P	FR32700 N60, 8S17P
	Casing	ABS Plastic								
	Dimension(L*W*H*TH)mm	151 x 98 x 95-101 TH	181 x 77 x 167-167 TH	197 x 165 x 170-170TH	229 x 138 x 212-217 TH	328 x 172 x 215-220 TH	483 x 170 x 240 x 240 TH	522 x 238 x 218-220 TH	328 x 172 x 215-220 TH	522 x 238 x 218-220 TH
	Approx. Weight	1.55Kg	2.9Kg	5.7Kg	6.7Kg	13.1Kg	19.2Kg	27Kg	13.1Kg	27Kg
	Terminal	M5	M5	M6	M6	M8	M8	M8	M8	M8

PERFORMANCE CHARACTERISTICS

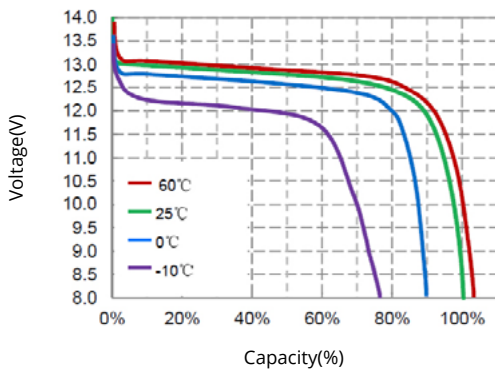
Different Rate Discharge Curve @ 25 °C



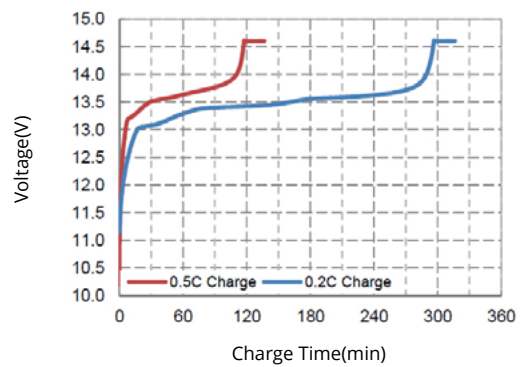
Charge Characteristics @0.2C&0.5C, 25 °C



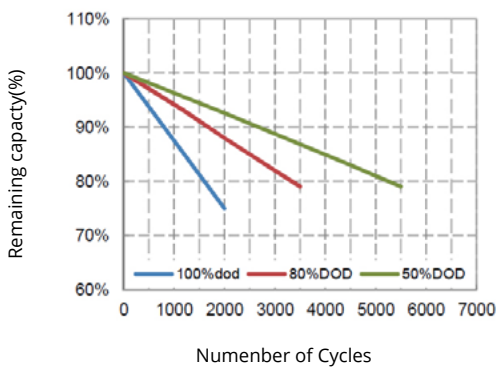
Different Temperature Discharge Curve @0.5C, 25 °C



Charge Characteristics @0.2C&0.5C, 25 °C



Different DOD Discharge Cycle Life Curve @0.5C, 25 °C



Open circuit voltage VS SOC%

