

Overview

The 12v 1800mAh rechargeable lithium battery from Quartz is designed to provide high energy density for low-rate applications.

Features

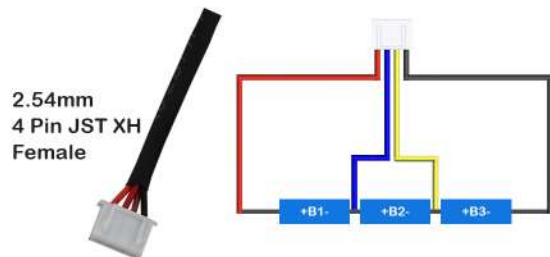
- High energy density.
- Equipped with Smart Battery Management System.
- Low self-discharge rate.
- Long cycle life.
- Excellent safety & performance.
- 4Pin JST XH Connector for balanced charging.



Charging/Discharging Connector

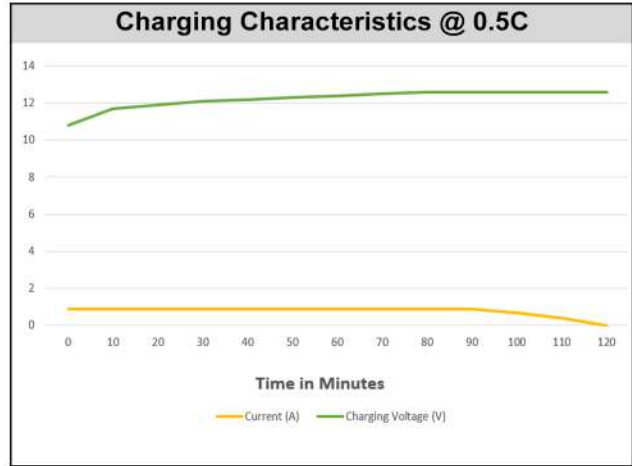
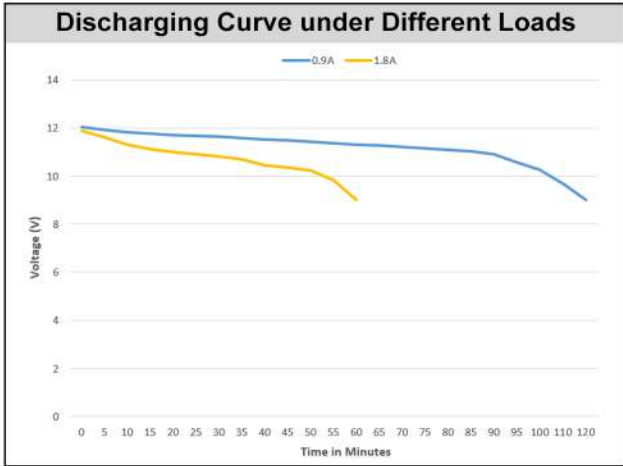


iMax B3 Balance Charge Connector



Battery Specification :

Nominal Characteristics	
Nominal Voltage /V	12V
Nominal Capacity /Ah (25°C, 0.2C)	≈1800Ah
Operating Voltage Range	9.2V-12.8V
Pack Characteristics	
Design	3S1P
Cell type/ Chemistry	18650/ NMC
Mechanical Characteristics	
Weight	150 gms
Dimensions (LxWxH)	56 x 22 x 68 mm
Charging/Discharging Connector	DC Male Connector
Balance Charge Connector	JST XH 2.54mm Female
Charging Characteristics	
Charge Voltage	12.6V
Max. Continues Charge Current	0.9A
Charging Duration	≈120Mins
Discharging Characteristics	
Max Voltage	12.6V
Min Voltage	9.2V
Max. Continues Discharge Current	1.8A
Peak Discharge Current	6A



BMS - Battery Management System:

Protection		Range	Units
Over Charge	Trigger Voltage	4.25	V
	Release Voltage	4.05	V
	Delay Time	80	ms
Over Discharge	Trigger Voltage	2.40	V
	Release Voltage	3.0	V
	Delay Time	40	ms
Over Current	Trigger Current	7	A
	Delay Time	40	ms
Balancing Function	NA		
Short Circuit	Delay	500	µs
	Manual Reset	Connect Power Source to Reset	
Thermal Protection	High Temperature	NA	
	Low Temperature	NA	