

Overview

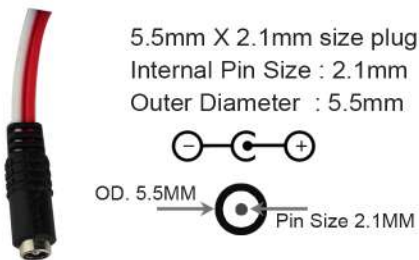
The 12v 5Ah rechargeable lithium battery from Quartz is designed to provide high energy density for low-rate applications.

Features

- High energy density.
- Equipped with Smart Battery Management System.
- Low self-discharge rate.
- Long cycle life.
- Excellent safety & performance.



Charging (DC Female Connector)

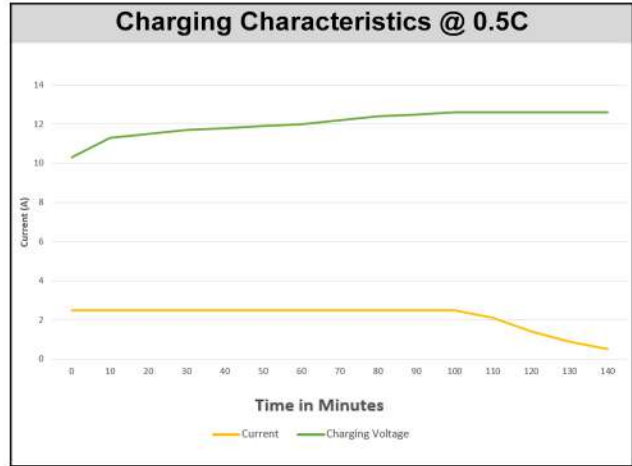
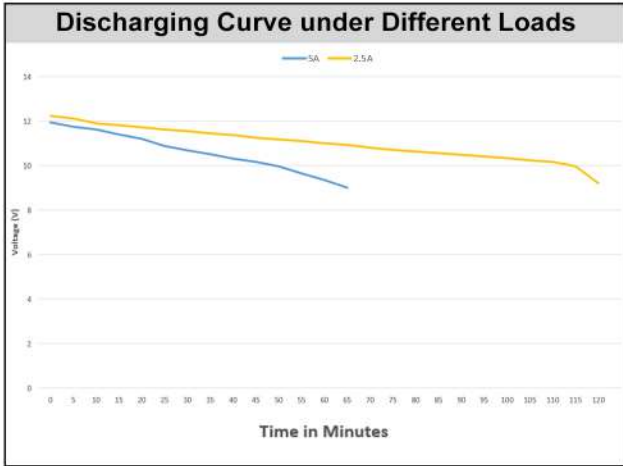


Discharging (XT-60 Female Connector)



Battery Specification :

Nominal Characteristics	
Nominal Voltage /V	12V
Nominal Capacity /Ah (25°C, 0.2C)	≈5Ah
Operating Voltage Range	9.2V-12.8V
Pack Characteristics	
Design	3S1P
Cell type/ Chemistry	26700/ NMC
Mechanical Characteristics	
Weight	345 gms
Dimensions (LxWxH)	75 x 30 x 80 mm
Charging Connector	DC Female Connector
Discharging Connector	XT-60 Female Connector
Charging Characteristics	
Charge Voltage	12.6V
Max. Continues Charge Current	2.5A
Charging Duration	≈120Mins
Discharging Characteristics	
Max Voltage	12.8V
Min Voltage	9.2V
Max. Continues Discharge Current	15A
Peak Discharge Current	15A



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	18	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	