

Overview

The 12v 1800mAh rechargeable lithium ion battery from Wattnine 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.

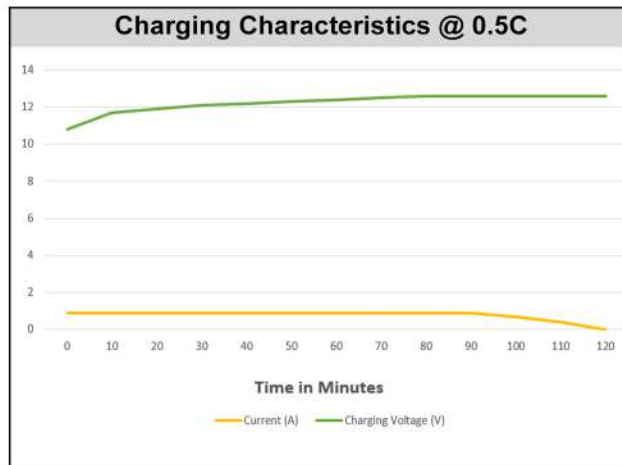
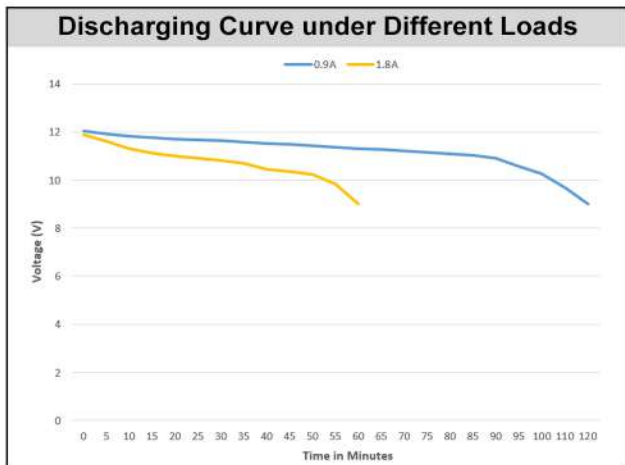


DC Male Female Charging/Discharging Connector



Battery Specification :

| Nominal Characteristics | |
|-----------------------------------|--------------------------|
| Nominal Voltage /V | 12V |
| Nominal Capacity /Ah (25°C, 0.2C) | ≈1800mAh |
| 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 Female Connector |
| Charging Characteristics | |
| Charge Voltage | 12.8V |
| Max. Continues Charge Current | 0.9A |
| Charging Duration | ≈120Mins |
| Discharging Characteristics | |
| Max Voltage | 12.8V |
| Min Voltage | 9.2V |
| Max. Continues Discharge Current | 1.8A |



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 | |