Coremax

3S-1210
ICR Series

Overview

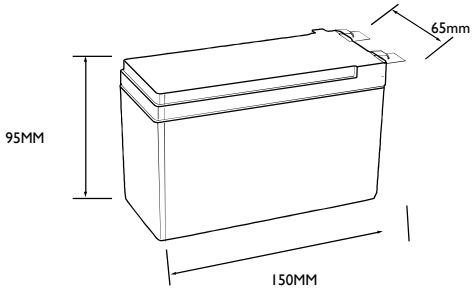
COREMAX Lithium ion 12v 10Ah rechargeable battery is optimized for low rate applications which require high energy density.

Features

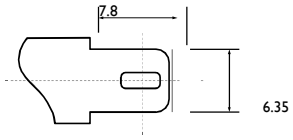
- High energy density
- Automatic protection with internal battery management system
- Low self-discharge rate
- Long cycle life
- Excellent performance in all operating temperatures

Battery Specifications:

Battery Dimensions:



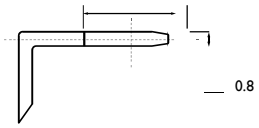
Terminal Dimensions:



Top

7.8

Side View



Nominal Characteristics	
Nominal Voltage /V	11.1V
Nominal Capacity /Ah (25°C , 0.2C)	≥ 10Ah
Mechanical Characteristics	
Weight	0.8KG
Dimensions L W H	150*95*65MM
Terminal	F2
Electrical Characteristics	
Voltage Range	9– 12.6V
Charge Voltage	12.6V
Standby Voltage	12V
Max. Continue Discharge Current	10A
Max. Permanent Discharge Current	30A
Max. Continue Charge Current	5A
Operation Conditions	
Cycle Life (+20°C 0.2C 100%DOD)	>500 Cycles
Operating Temperature	Discharge: -20℃ –45℃ Charge: -10 – 45℃
Storage Temperature	0 – 35℃
Storage Duration	12 Months at 25℃
Safety Standard	UI1642 at cell level

BMS - Battery Management System:

1	Voltage	Charging voltage	DC:12.6V CC/CV
		Balance voltage for single cell	4.2±0.025V
2	Current	Balance current for single cell	36mA
		Current consumption	≤50μA
		Maximal continuous charging current	5A
		Maximal continuous Discharging current	10A
3	Over charge Protectio	Over charge detection voltage for single cell	4.3V±0.025V
		Over charge detection delay time	0.5S—1.5S
		Over charge release voltage for single cell	4.2V±0.05V
4	Over discharge protection	Over discharge detection voltage for single cell	2.5V±0.08V
		Over discharge detection delay time	100mS—500mS
		Over discharge release voltage for single cell	2.75±0.10V
5	Over current protection	Over current detection voltage	30±25mv
		Over current detection current	45±3A
		Detection delay time	10mS—300mS
		Release condition	Cut load
6	Short protection	Detection condition	Exterior short circuit
		Detection delay time	200-500us
		Release condition	Cut load
7	Resistanc	Protection circuitry(MOSFET)	≤50mΩ
8	Temperat ure	Charge low temperature protection	-20℃±5℃
		Charge high temperature protection	45℃±5℃
		Discharge high temperature protection	55℃±5℃