

IPC ENGINEERING, ELECTRIC, ELECTRONICS AND TRADE LIMITED COMPANY

Lithium Battery



Lithium Technical advantages

- Using chemical battery system with Li-ion phosphate material as the positive, and with carbon material as the negative; using aluminum-plastic composite film as the packaging material for superior safefy protection.
- Optimizing the technology, fully utilizing the performance of Li-ion phosphate material, apply technology to remedy the rate and high temperature performance of Li-ion phosphate material;
- Superior high temperature performance that can withstand 60 degree celcius operating temperature for 10 years without comprising capacity
- Using exclusive functional electrolyte of Li-ion phosphate to raise the battery rate and high temperature performance;
- Using creative manufacturing technology, and plate group laminating, the innovative technology greatly improves the efficiency of production and increases the production stability
- Manufactured with automated equipment

Lithium Technical advantages

Modular products with single cell of 10Ah and 50Ah with lithium iron phosphate polymer battery, combine in parallel to increase capacity and in serial to increase voltage.







Lithium Assembly Structure



Use chemical power system with Li-ion phosphate as the positive and carbon as the negative; use aluminum plastic film as the sealing material; technically use plate group lamination with automatic and semi-automatic equipments, combine modular type products in parallel connection to increase capacity and in serial connection to increase voltage.



Lithium Assembly Structure





Pictures of combined cells

Efficiently solved the bad mechanical performance problem of soft package batteries





Lithium Endurance Performance

2700 cycles and 89% capacity remaining (room temperature with 3C charge and discharge,100%DOD)



Product Performance

iPC /



步骤		电流	电压	备注	Testing method
1	CC	10A (0.2C)	56.4V		according to
2	DC	10A (0.2C)	40V	确认初始容量	requirement. Of which testing under 45 Degree C
3	CC	50A (1C)	56.4V		
4	DC	50A (1C)	48V		
5	跳转步骤3			循环100次	after 600 cycles,
6		按照1-2步骤确认一次容		battery capacity	
7		进行3-5步循环。		remains above	
常温25度1C循 低于70%,测	93%				

Product Performance

电池编号	储存前I3放电 容量(mAh)	満电55℃储存7天 后I3荷电保持容 量(mAh)	満电55℃储存 7天后I3恢复 容量(mAh)	荷电保持 容量百分 比	恢复容量百 分比
卧龙电气-1	11308	11222	11300	99.24%	99.93%
卧龙电气-2	11355	11276	11360	99.30%	100.04%
卧龙电气-3	11297	11105	11180	98.30%	98.96%
A, □ − 1	10010	9538	9696	95.28%	96.86%
A, ⊂ −2	9507	9093	9250	95.65%	97.30%
В/¯−1	12090	11778	11880	97.42%	98.26%
В/¯−2	11976	11349	11508	94.76%	96.09%
С/_−1	12145	12136	12234	99.93%	100.73%
С/Ѓ−2	12077	11927	12025	98.76%	99.57%



High temperature storing

Product Performance

Manufacturer	Wolong Electric	Α	В	С		
1st discharge capacity (mAh)	10482	9891	11066	12325	cycle performance	
The 100 time discharge capacity (mAh)	10241	9099	2236	11605		
Remaining capacity percentage after 100 cycles	97.70%	91.99%	20.21%	94.16%		

* Test condition:
60°C constant temperature tank
10A (1C) constant current and
constant voltage charge (voltage limit
3.65V, terminate current 300mA)
10A (1C) constant current
discharge,terminate voltage 2.0V



Thank you for attention!





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