



立源新能源
LIYUAN NEW ENERGY

产品规格说明书

PRODUCT SPECIFICATION

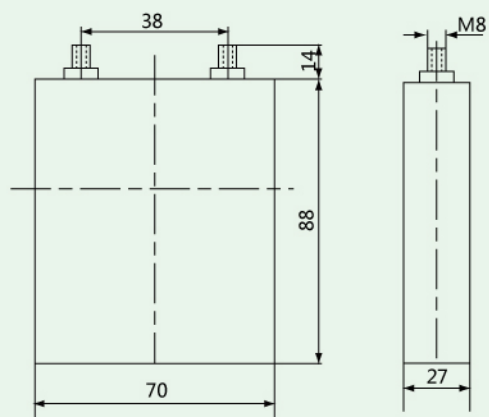
电容型锂离子电池单体性能说明

Cell Technical Data Sheet of Supercapacitor Li-ion Battery



技术参数 Cell Technical Data Sheet

型号 Model	HP-NP-3R2-100B
额定电压 (V) Nominal Voltage	3.2
额定容量 (Ah) Nominal Capacity	10
直流内阻 (ESR _{DC}) (mΩ) Internal Resistance	≤5
重量能量密度 (Wh/kg) Energy Density	≥110
体积能量密度 (Wh/dm ³) Energy Density	≥210
功率密度 (W/kg) Power Density	≥1300
持续放电电流 (A) Continuous Discharge Current	5C
最大10S脉冲放电电流 (A) Max. Discharge Current (10S)	25C
充电截止电压 (V) Charge Cut-off Voltage	3.6
放电截止电压 (V) Discharge Cut-off Voltage	2.5
标准充电方式 (CC-CV) Standard Charging	0.5C
快速充电方式 (CC-CV) Fast Charging	2C
使用温度范围 (°C) Temperature Range	-30~70
存储温度范围 (°C) Storage Temperature Range	-40~70
存储湿度范围 (RH) Storage Humidity Range	≤85%
存储压力范围 (MPa) Storage Pressure Range	0~0.1
循环寿命 (≥80% DOD) Cycle Life	≥3000
自放电率 (30 days) Self Discharge Rate	≤1.5%
容量保持 (20°C±5°C保存30天) Capacity Retention (30days)	≥98%
重量 (g) Weight	360±5%



安全性能 Safety Characteristic

符合“QC/T 743-2006《电动汽车用锂离子蓄电池》”标准
Comply with the standard of QC/T 743-2006《Li-ion Storage Battery for EV》



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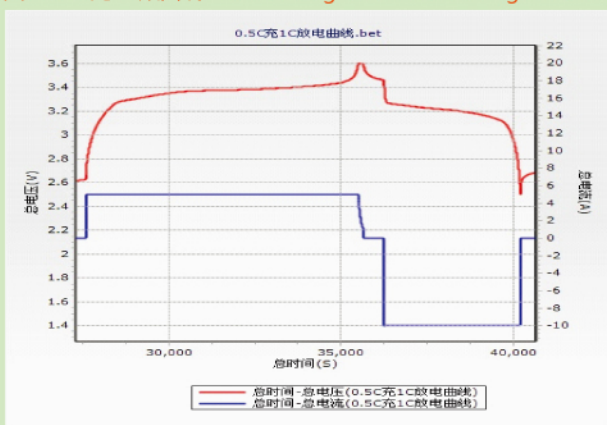
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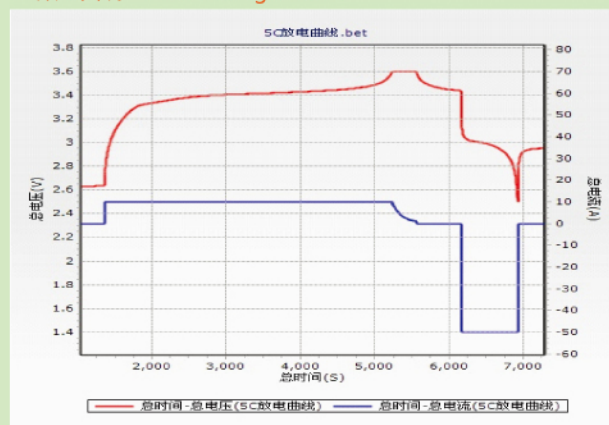
电容型锂离子电池充放电特性

Charge and Discharge Characteristic

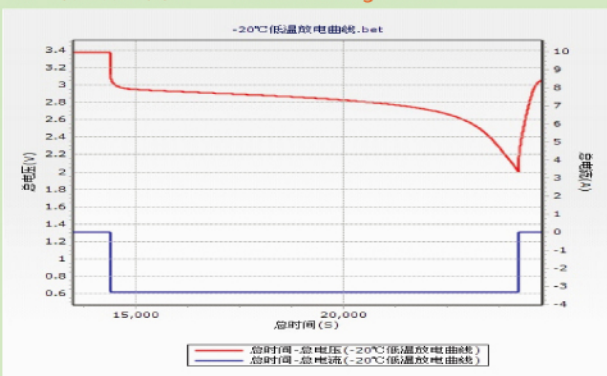
典型0.5C充1C放曲线 0.5C charge and 1C discharge curve



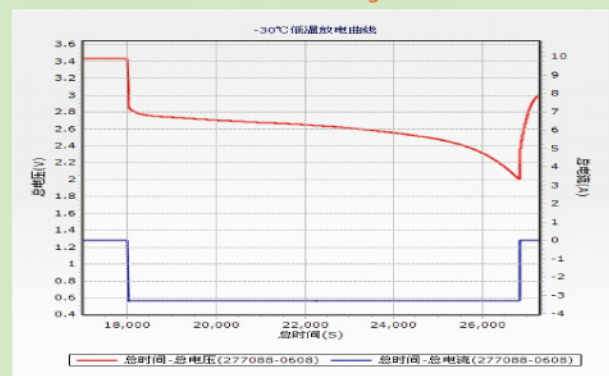
5C放电曲线 5C discharge curve



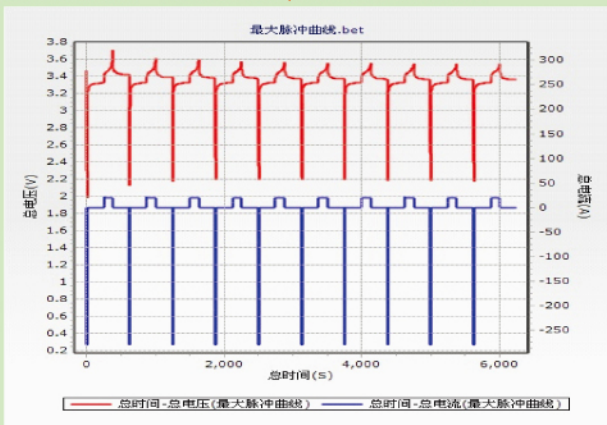
-20°C低温放电曲线 -20°C discharge curve



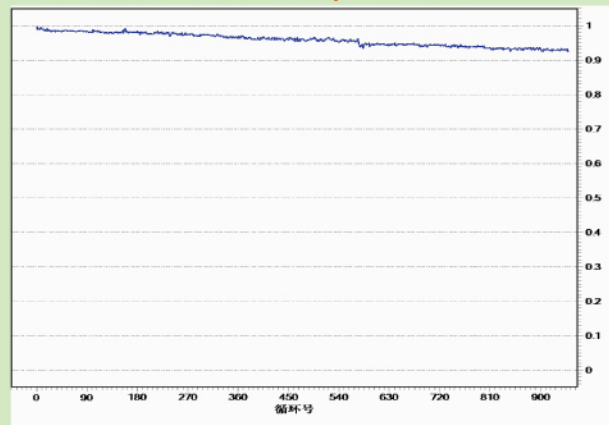
-30°C低温放电曲线 -30°C discharge curve



10秒脉冲曲线 10 seconds pulse current curve



循环寿命放电容量保持率曲线 Cycle life curve



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