

产品规格书 (Specification)

产品用途: HEV (混合电动汽车)

1、D型镍氢动力单体电池 Single Cell (6500mAh)

项目 Item	规格 Specification	
尺寸	外径 Outer Diameter (mm)	32.2±0.07
Dimensions	总高 Over Height (mm)	60.5±0.2
近似重量 Approximate Weight(g)		165
额定容量 Nominal Capacity(mAh)		≥6500 (IEC)
标称电压 Nominal Voltage(V)		1.2
内阻 Internal Resistance (mΩ)		≤1.6
1.2V 放电容量 Discharge Capacity 1.2V Cut		≥70%
比能量 Specific Energy (Wh/kg)		≥45
峰值功率 Peak Power (W)		≥130 (DOD50%)
比功率 Specific Power (W/kg)		≥850 (DOD50%)
Peak Discharge (30C discharge、70%SOC, 0.8V cut-off)		≥10S
Peak Charging (15C charge, 50%SOC, 1.66V cut-off)		≥10S
MAX Continuous Discharge (15C discharge, 70%SOC, 0.8V cut-off)		≥60S
高温性能 High Temperature Performance (50℃ charge/discharge capacity rate)		≥70%
低温性能 Low Temperature Performance (-20℃ discharge capacity rate)		≥80%
荷电保持性能 Charge Retention (30 days Charge Retention)		≥75%
工作温度范围 Working Temperature		-20℃ 至 +55℃
储存温度范围 Storage Temperature		-40 至 +65℃

Cycle life (C/3 充电、1C 放电)	≥800cycles
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2、D 型镍氢动力电池模块 Package (7.2V HEV Battery Bar)

项目 Item		规格 Specification
尺寸 Dimensions	外径 Outer Diameter (mm)	34.0
	总长 Over Length (mm)	396 (包括接线端子)
近似重量 Approximate Weight(g)		1100
额定容量 Nominal Capacity(mAh)		6500(IEC)
标称电压 Nominal Voltage(V)		7.2
内阻 Internal Resistance (mΩ)		≤9.6
7.2V 放电容量 Discharge Capacity 7.2V Cut		≥70%
比能量 Specific Energy (Wh/kg)		≥45
峰值功率 Peak Power (W)		≥130 (DOD50%)
比功率 Specific Power (W/kg)		≥850 (DOD50%)
Peak Discharge (30C discharge, 70%SOC, 0.8Vcut-off)		≥10S
Peak Charging(15C charge, 50%SOC, 1.66V cut-off)		≥10S
MAX Continuous Discharge (15C discharge, 70%SOC, 0.8V cut-off)		≥60S
高温性能 High Temperature Performance (50℃ charge/discharge capacity rate)		≥70%
低温性能 Low Temperature Performance (-20℃ discharge capacity rate)		≥80%
荷电保持性能 Charge Retention (30 day Charge Retention)		≥75%
工作温度范围 Working Temperature		-20℃ to +55℃
储存温度范围 Storage Temperature		-40 to +65℃
循环寿命 Cycle Life (C/3 Charge、1C Discharge)		≥800cycles