

AH Series

Soft-pack LIC Cell 软包式LIC 单体

Typical applications 典型应用

- Rail transit; port trucks; smart power grids
- Pure electric buses; energy-saving elevators
- Tunnel and mining locomotives
- Portable X-ray machines and other medical power supplies
- Ferries, sightseeing cars, golf carts, AGV and RGV
- Backup power for computers, servers and UPS
- Hybrid power-driven engineering and harbor machinery
- Wind, solar and other renewable-energy storage
- Other high-power, high-energy and high-temperature applications



Branding illustration / 品牌外观示意

Electrical characteristics 电气特性

Parameter / 项目	Specification / 规格
Rated voltage / 额定电压	2.5-4.0 V
Operating temperature / 工作温度	0 to +65 °C
Surge voltage / 浪涌电压	4.35 V
Capacitance range / 容量范围	1000-16000 F
Capacitance tolerance at 25 °C / 容量偏差	-20% to +20%

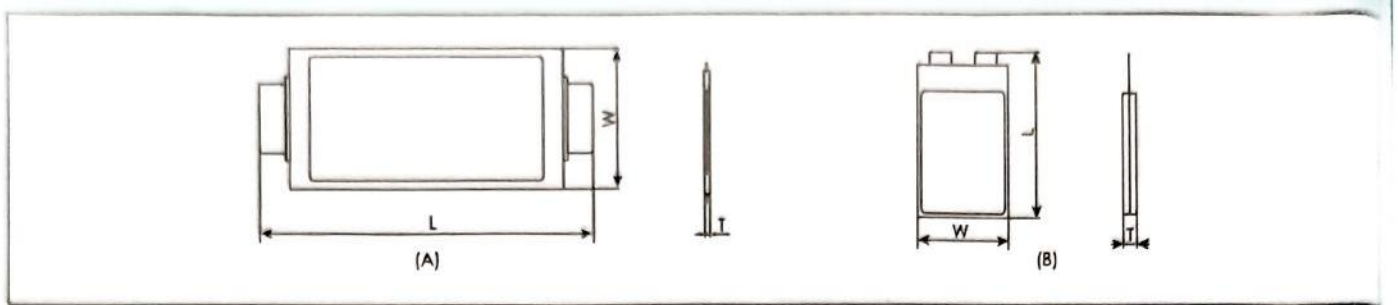
Reliability characteristics 可靠性特性

Test / 项目	Condition / 条件	Requirements / 要求
Temperature characteristics 温度特性	0 to +65 °C 0 至 +65 ° C	Capacitance change: within 50% of initial value at 25 °C ESR _{AC} : "4 × initial specified value 容量变化: 50% 以内; 内阻: ≤4 倍
High-temperature load 高温负荷	Rated voltage, 65 °C, 1,000 h 额定电压, 65 ° C, 1,000 小时	Capacitance change: within 20% of initial value ESR _{AC} : "2 × initial specified value 容量变化: 20% 以内; 内阻: ≤2 倍
High-temperature storage 高温存储	65 °C, 1,000 h 65 ° C, 1,000 小时	Capacitance change: within 20% of initial value ESR _{AC} : "2 × initial specified value 容量变化: 20% 以内; 内阻: ≤2 倍
Cycle life 循环寿命	50,000 cycles, 25 °C 2.5-4.0 V 50,000 次充放电循环, 25 ° C	Capacitance change: within 20% of initial value ESR _{AC} : "2 × initial specified value 容量变化: 20% 以内; 内阻: ≤2 倍

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Dimensions 外形尺寸



Dimensions in mm. Tolerances are shown in the drawing.

Ratings and part numbers 额定值与料号

U _R (Surge Voltage) Code 额定电压 (浪涌电压) 代码	Rated Capacitance 额定容量 25℃	Storage Energy 储存能量, 25℃	Impedance 内阻		Rated Current 额定电流	Self-discharge 自放电 (72hrs)	Dimension 尺寸 (L*W*T)	P/N 产品代码
			ESR _{DC} 直流内阻	ESR _{AC} 交流内阻 (1KHz)				
(V)	(F)	(Wh)	(mΩ)	(mΩ)	(A)	(V)	(mm)	
4.0 (4.35) 4R0	1000	1.36	≤25	≤11.5	5	≥3.92	100 x 71 x 3.0 (B)	SCCHAH4R0108M
	2000	2.92	≤11.5	≤6.5	10	≥3.92	100 x 71 x 5.5 (B)	SCCHAH4R0208M
	3200	4.65	≤7.0	≤4.0	16	≥3.92	100 x 60 x 9.0 (B)	SCCHAH4R0328M
	6000	8.10	≤4.5	≤3.5	30	≥3.92	300 x 123 x 3.5 (A)	SCCHAH4R0608M
	10000	13.20	≤2.2	≤1.5	50	≥3.92	300 x 123 x 5.2 (A)	SCCHAH4R0109M
	16000	22.00	≤1.8	≤1.4	50	≥3.92	300 x 123 x 8.0 (A)	SCCHAH4R0169M