

Typical application 典型应用

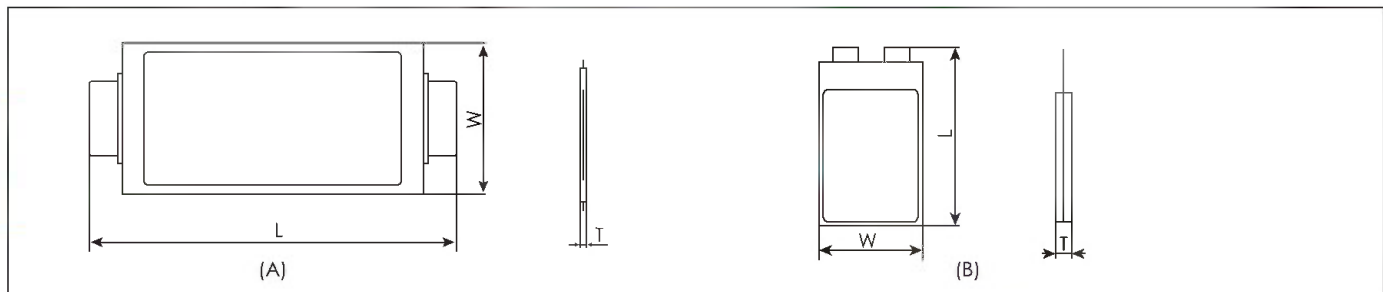
- Backup power (computer, server, UPS) 后备电源 (电脑、服务器、UPS)
- Medical power supplies (Portable X-ray machine) 医疗器械电源 (便携式X光机)
- Rail transit 轨道交通
- Smart power grids 智能电网
- Tunnel locomotive, mining locomotive 隧道机车、矿用机车
- Port truck 码头车
- Pure electric bus 纯电动公交车
- Ferry, sightseeing car, golf cart, AGV and RGV 渡轮、观光车、高尔夫球车、AGV及RGV
- Energy saving elevator 节能电梯
- Hybrid power driven engineering machinery and harbor machinery 混合动力工程机械及港口机械
- Wind power, solar and other renewable energy storage 风电、光伏等可再生能源储能
- Other high power, high energy and high temperature applications 其他对功率、能量和温度要求比较高的工况应用



Items 项目	Characteristics 特性					
Rated Voltage 额定电压	2.5V~4.0V					
Operating Temperature Rang 工作温度范围	0~+65°C					
Surge Voltage 浪涌电压	4.35 V					
Capacitance Range 容量范围	1000~16000 F					
Capacitance Tolerance 容差范围(25°C)	M: -20~+20%					
Temperature Characteristics 温度特性	The specifications shall be met at category temperature range from 0°C to 65°C 在0°C至65°C温度范围内, 应满足规范	<table border="1"> <tr> <td>Capacitance change 容量变化</td> <td>Within 50% of the initial value at 25°C 在25°C时初始值的50%以内</td> </tr> <tr> <td>ESR_{AC} change 交流内阻变化</td> <td>Not more than 4 times of the initial specified value at 25°C 不超过25°C时初始规定值的4倍</td> </tr> </table>	Capacitance change 容量变化	Within 50% of the initial value at 25°C 在25°C时初始值的50%以内	ESR _{AC} change 交流内阻变化	Not more than 4 times of the initial specified value at 25°C 不超过25°C时初始规定值的4倍
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High Temperature Loaded 高温负荷	The specifications shall be met after rated voltage applied at 65°C for 1000 hours 在65°C温度下, 以额定电压恒压1000h后, 应满足规范	<table border="1"> <tr> <td>Capacitance change 容量变化</td> <td>Within 20% of the initial value 在初始值的20%以内</td> </tr> <tr> <td>ESR_{AC} change 交流内阻变化</td> <td>Not more than 2 times of the initial specified value 不超过初始规定值的2倍</td> </tr> </table>	Capacitance change 容量变化	Within 20% of the initial value 在初始值的20%以内	ESR _{AC} change 交流内阻变化	Not more than 2 times of the initial specified value 不超过初始规定值的2倍
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High Temperature Storage 高温存储	The specifications shall be met after storage at 65°C for 1000 hours 在65°C 温度下, 储存1000h后, 应满足规范	<table border="1"> <tr> <td>Capacitance change 容量变化</td> <td>Within 20% of the initial value 在初始值的20%以内</td> </tr> <tr> <td>ESR_{AC} change 交流内阻变化</td> <td>Not more than 2 times of the initial specified value 不超过初始规定值的2倍</td> </tr> </table>	Capacitance change 容量变化	Within 20% of the initial value 在初始值的20%以内	ESR _{AC} change 交流内阻变化	Not more than 2 times of the initial specified value 不超过初始规定值的2倍
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Cycle Life 循环寿命	The specifications shall be met after 50,000 cycles at 25°C, cycle of charge /discharge from 2.5~4.0V 在25°C 温度下, 2.5~4.0V充放电循环50000次后, 应满足规范	<table border="1"> <tr> <td>Capacitance change 容量变化</td> <td>Within 20% of the initial value 在初始值的20%以内</td> </tr> <tr> <td>ESR_{AC} change 交流内阻变化</td> <td>Not more than 2 times of the initial specified value 不超过初始规定值的2倍</td> </tr> </table>	Capacitance change 容量变化	Within 20% of the initial value 在初始值的20%以内	ESR _{AC} change 交流内阻变化	Not more than 2 times of the initial specified value 不超过初始规定值的2倍
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Dimensions 尺寸

mm



Ratings for HAH Series HAH 系列额定值

U _s (Surge Voltage) Code (额定电压 (浪涌电压) 代码)	Rated Capacitance 额定容量 25°C (*)	Storage Energy 储存能量 25 °C	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	100×71×3.0(B)	SCCHAH4R0108M
	2000	2.92	≤11.5	≤6.5	10	≥3.92	100×71×5.5(B)	SCCHAH4R0208M
	3200	4.65	≤7.0	≤4.0	16	≥3.92	100×60×9.0(B)	SCCHAH4R0328M
	6000	8.10	≤4.5	≤3.5	30	≥3.92	300×123×3.5(A)	SCCHAH4R0608M
	10000	13.20	≤2.2	≤1.5	50	≥3.92	300×123×5.2(A)	SCCHAH4R0109M
	16000	22.00	≤1.8	≤1.4	50	≥3.92	300×123×8.0(A)	SCCHAH4R0169M

*Note: Special customization is possible.

*注: 可以特殊定制。