

SGE Series

Screw EDLC Cell 螺栓式 EDLC 单体

Typical applications 典型应用

- Subway energy-storage systems
- Passenger-car starting power modules
- Backup power for fan rotor-control systems
- Energy storage for construction machinery
- Microgrid energy storage



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	3.0 V
Operating temperature / 工作温度	-40 to +65 °C
Surge voltage / 浪涌电压	3.15 V
Capacitance range / 容量范围	650-3400 F
Capacitance tolerance at 25 °C / 容量偏差	0% to +20%

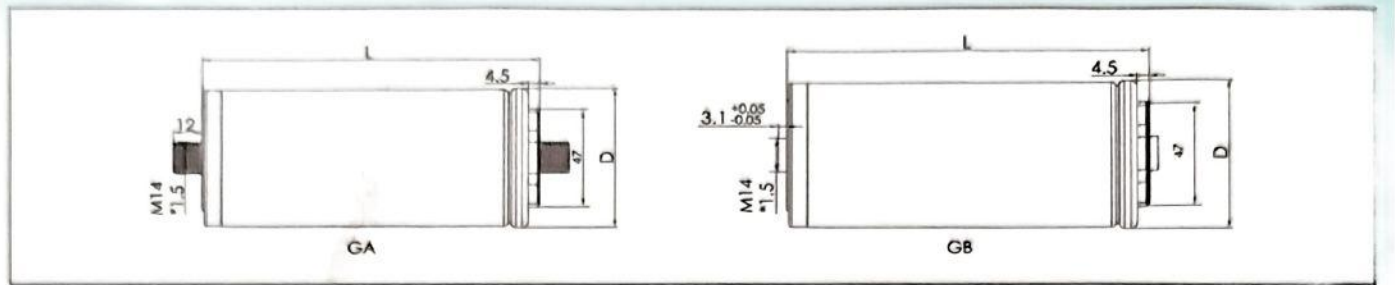
Reliability characteristics 可靠性特性

Test / 项目	Condition / 条件	Requirements / 要求
Temperature characteristics 温度特性	-40 to +65 °C -40 至 +65 °C	Capacitance change: within 20% of initial value at 25 °C ESR _{AC} : "2 × initial specified value 容量变化: 20% 以内; 内阻: ≤2 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	70 °C, 1,000 h 70 °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	1,000,000 cycles, 25 °C V _R to ½V _R 1,000,000 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 Cap. 25℃ 额定容量 25℃	ESR _{DC} 直流内阻	Leakage Current 漏电流 (72hrs)	Maximum Continuous Current 最大持续电流 (Δt=15℃)	Maximum Continuous Current 最大持续电流 (Δt=40℃)	Size 尺寸 ΦD×L	Weight 重量	P/N 产品代码
(V)	(F)	(mΩ)	(mA)	(A)	(A)	(mm)	(g)	-
3 (3.15) 3R0	650	0.79	3	54	88	61*52	160	SCCDEG3R0657RGB610052E
								SCCDEG3R0657RGA610052E
	1200	0.55	5	73	110	61*74	260	SCCDEG3R0128RGB610074E
								SCCDEG3R0128RGA610074E
	1500	0.47	7	83	140	61*85	280	SCCDEG3R0158RGB610085E
								SCCDEG3R0158RGA610085E
	2000	0.36	8	102	170	61*102	360	SCCDEG3R0208RGB610102E
								SCCDEG3R0208RGA610102E
	3000	0.27	12	130	210	61*138	510	SCCDEG3R0308RGB610138E
								SCCDEG3R0308RGA610138E
	3400	0.24	15	140	225	61*138	513	SCCDEG3R0348RGB610138E
								SCCDEG3R0348RGA610138E