

Features

- Low ESR
- Increase power density and energy density
- Long cycle life, more than 1000000 times
- Fast charge discharge
- High safety and reliability
- Weldable terminal

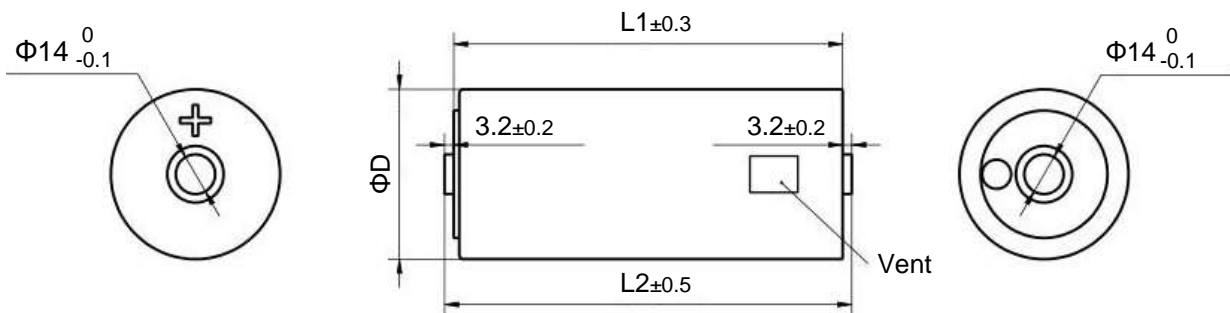
Applications

- EV/HEV
- Hybrid drive trains
- Mass transportation braking energy recovery system
- Heavy duty machinery
- Locomotive engine startup system
- The grid system
- Wind power generation system



Cap	Dimension/ mm		
	D(Max.)	L1	L2
4200F	60.8	138	144.4

Dimensions



Specifications

Items	Characteristics
Operating Voltage	2.85 VDC
Surge Voltage	3.0 VDC
Operating Temperature Range	-40°C to 65°C
Capacitance Tolerance	-10% to +20% (25°C)
Temperature Performance(-40°C to 65°C)	$\Delta C \leq 5\%$ of initial measured value@ 25°C ESR $\leq 150\%$ of specified value
Life (1500 hours @ 65°C, 2.85 VDC)	$\Delta C \leq 20\%$ of initial measured value ESR $\leq 200\%$ of specified value
Cycle life (1,000,000 cycles between V_R and $1/2 V_R$)	$\Delta C \leq 20\%$ of initial measured value ESR $\leq 200\%$ of specified value

Standard Product

CAP (F)	Part Number	ESR (mohm)		LC (mA, RT 72hrs)	Max. Energy Stored (Wh)	Max. Energy Density (Wh/Kg)	Max. Continuous Current (15/40°C,A)	Max. Peak Current (A)	Typical Thermal Resistance (Housing) °C/W	Typical Thermal Capacitance, C_{th} , J/°C	Typical Mass (g)
		AC @ 1kHz	DC								
4200	SCP4200C0-0002R85WLH	0.22	0.28	7.7	4.74	8.7	130/212	2750	3.2	640	545