

Battery Capacitor SPC

Lithium-ion battery capacitor (SPC) independently developed by EVE, is a kind of energy storage device that can supply instantaneous large current discharge in the temperature range from -40°C to +85°C. ER+SPC solution, combining long life Li-SOCl₂ battery and super pulse Li-ion battery capacitor, is an ideal power solution for long term standby and high current pulse applications. In terms of design, EVE uses a unique safety valve and sealing method to ensure the safety and reliability of ER + SPC solution power supply during use.

Features of ER+SPC solution

- No voltage delay, high capacity and high pulse
- Wide working temperature range: -40°C ~ +85°C
- Safety and reliability certifications: UL1642, UN38.3, ATEX
- High reliability: 12+ years in the metering fields application

Applications

- Automatic meter reading
- GPS tracking system
- Radio frequency identification
- Field monitoring, marine monitoring
- Smart manhole cover, Smart parking
- Automated metering infrastructure
- Intelligent transportation ETC
- Smart logistics tracking system

Super Pulse Battery Capacitor

Model	Max. Charging Voltage (V)	Capacity (F)	Capacity (mAh)	Max. Continuous Current (mA)	Max. Pulse Current (mA)	Cut-off Discharge Voltage (V)	Internal Resistance (mΩ)	Working Temperature Range (°C)	Max. Outside Dimension (mm)
SPC0920A	3.95	55@3.67V	8.5@3.67V	300	600	2.5	≤500	-40~+85	Ø9.0*21.0
SPC1520A	3.95	292@3.67V	45@3.67V	500	2000	2.5	≤160	-40~+85	Ø15.1*21.0
SPC1530A	3.95	486@3.67V	75@3.67V	1500	3000	2.5	≤100	-40~+85	Ø15.1*29.0
SPC1550A	3.95	1103@3.67V	170@3.67V	2000	5000	2.5	≤80	-40~+85	Ø15.1*51.0

ER+SPC Solution

Model	Size	Nominal Voltage (V)	Nominal Capacity (mAh)	Max. Continuous Current (mA)	Working Temperature Range (°C)	Max. Outside Dimension (mm)
ER14250+SPC1520A	1/2AA+SPC1520A	3.6	1200	2000	-40~+85	Ø14.5*25.5+Ø15.1*21.0
ER26500C+SPC1520A	C+SPC1520A	3.6	8500	2000	-40~+85	Ø26.5*51.0+Ø15.1*21.0
ER34615C+SPC1520A	D+SPC1520A	3.6	19000	2000	-40~+85	Ø33.1*61.5+Ø15.1*21.0
ER14505+SPC1550A	AA+SPC1550A	3.6	2700	5000	-40~+85	Ø14.5*51.0+Ø15.1*51.0
ER26500C+SPC1550A	C+SPC1550A	3.6	8500	5000	-40~+85	Ø26.5*51.0+Ø15.1*51.0
ER34615C+SPC1550A	D+SPC1550A	3.6	19000	5000	-40~+85	Ø33.1*61.5+Ø15.1*51.0

Note: The above data comes from EVE's laboratory



SPC0920A

Electrochemical performance (RT storage for less than 1 year)

When charge to 3.67V-----8.5mAh
Discharge end voltage: -----2.5V

Operating condition

Max. discharging current: Continuous discharging current-----300mA
Pulse discharging current(1S)-----600mA
Charging (constant current): Max. charging voltage-----3.95V
Max. charging current-----25mA
Operating temperature range----- -40°C ~ +85°C
Storage temperature range----- -30°C ~ +45°C
Internal resistance(RT@1kHz) ----- ≤500mΩ
Leakage current at RT----- 3μA
Leakage current at 55°C----- 5μA
Remaining capacity of 1-year storage time at RT----- 80%



Buoy



GPS Tracking



Smart Meter



ETC



Smart City

SPC1520A

Electrochemical performance (RT storage for less than 1 year)

When charge to 3.67V-----45mAh
Discharge end voltage: -----2.5V

Operating condition

Max. discharging current: Continuous discharging current-----500mA
Pulse discharging current(1S)-----2000mA
Charging (constant current): Max. charging voltage-----3.95V
Max. charging current-----25mA
Operating temperature range----- -40°C ~ +85°C
Storage temperature range----- -30°C ~ +45°C
Internal resistance(RT@1kHz) ----- ≤160mΩ
Leakage current at RT----- 3μA
Leakage current at 55°C----- 5μA
Remaining capacity of 1-year storage time at RT----- 80%



Note: The above data comes from EVE's laboratory

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