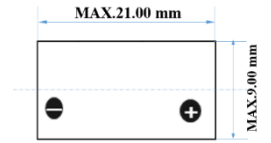


SPC0920A

Super Pulse Battery Capacitor



International size reference: SPC0920A

Technical data

- Nominal capacity: 8.5 mAh@3.67 V (55 F@3.67 V)
- Nominal voltage: 3.6 V
- Discharge end voltage: 2.5 V (discharge below 2.5 V at RT or discharge below 2.0 V at -40 °C may increase the internal impedance)
- Maximum discharge current (RT):
 - Continuous: 300 mA Pulse: 600 mA
- Standard charge voltage: 3.67 V
- Max. charge voltage: 3.95 V
- Max. charge current:
 - 25 mA (RT)
 - 8 mA (-20°C ~ +50°C)
 - 1.6 mA (-40°C ~ +90°C)
- Operating temperature range: -40°C ~ +90°C
- Storage temperature range: -30°C ~ +45°C
- If continuous over +40°C usage condition, please consult EVE.
- Internal impedance: ≤500 mΩ (RT@1 kHz)

Safety tests

The SPC successfully passed the following tests:

- Short circuit at RT and 55°C
- Shock and Vibration
- Crush
- Nail penetration
- Impact
- Forced discharge
- Overcharge
- High temperature exposure

Application

- Intelligent meter
- Automotive electronics
- Internet of things
- Household electricity meter
- ETC
- Alert/safety equipment

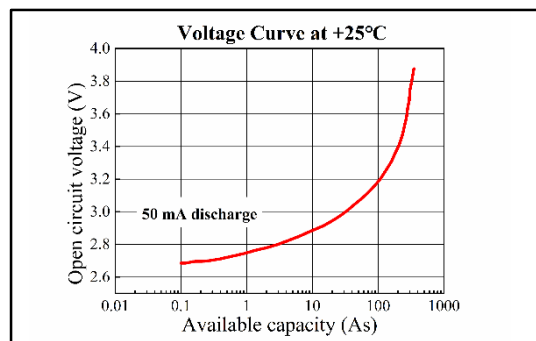
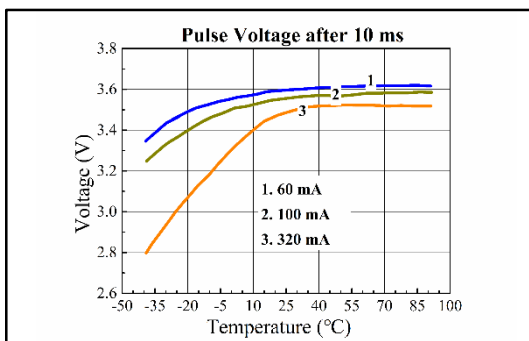
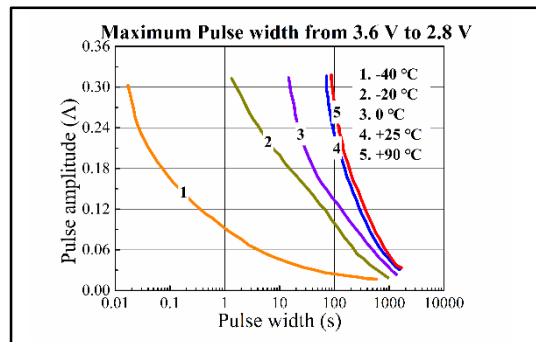
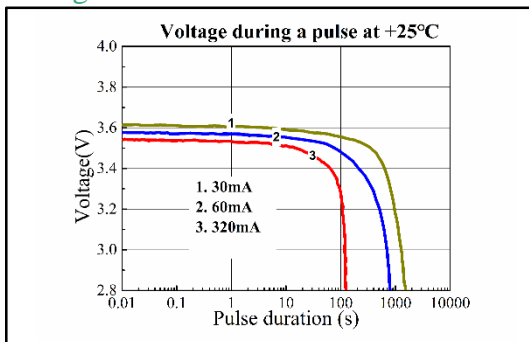
Features & Benefits

- Fast charge
- Long operating life
- Wide operating temperature range
- Delivering high current pulses up to 10 C at extremely temperature
- Extremely low self discharge
- High safety and reliability
- Extremely lower DC impedance

Warning

- The SPC0920A may leak or even explode if charge above 4.2 V or burn.
- Do not charge the SPC0920A above 4.1 V, discharge below 2.0 V, short circuit, heat above 100°C or exposed directly to water.
- Charge the SPC0920A above 3.95 V may cause irreversible capacity loss and internal impedance increase.
- If SPC0920A is used in parallel with the power supply, protection measures shall be taken to prevent SPC0920A from reverse charging the power supply and prevent SPC0920A from reverse charging or short circuiting.

Discharge characteristic



ATTENTION:

Any discharge data in this document are all vertical discharge. Other conditions, consult EVE.
The above data comes from EVE's laboratory, any representations in this document concerning performance are for informational purpose only.
EVE Energy Co.,Ltd reserves the right to interpret this data.



Official website

Issued in Jan.2023