

PLCB4360A5AAMA

Rechargeable Lithium-Ceramic Battery

Ultra-Safe

Wide Temp. Window (Operation/Storage)

Fast Charge and Discharge



Benefits

- Ultra-Safe : Hazard Level 1~3 passed
- High Stability
-Able to be charged at 85°C and discharged at 90°C.

Key features

- Ultra-Safe.
 - No fire, no smoke and no leakage after physical impact.
 - Hazard Level 1~3 passed.
- High Stability (Storage)
 - Storage at 85°C/14 days, recovery > 98%, Swelling ratio <10%.
 - Storage at -105°C/14 days. (@3.8V~4.0V)
 - Storage at -40°C/ 3months, recovery > 98%. No salt out.
 - Storage at -65°C/1 month, recovery > 98%. No salt out.
- High Stability (Operation)
 - Able to be charged at 85°C
 - Able to be discharged at 90°C.
- 2C Discharge Rate Capability :
 - Capacity ~84% @ 25°C
 - Capacity ~93% @ 85°C

Main applications

- Industrial / Rugged Tablet, Smart Helmet
- Medical Tablet, AIO PC, Wearable Device
- Handheld Device/ Power Bank

Transportation and storage:

- Store in a dry place at a temperature preferably not exceeding 30°C.
- For long-term storage, keep the battery within a (30 ± 15) % state of charge.

Electrical characteristics

Nominal capacity	1950 mAh
Nominal voltage	3.75 V
Operating voltage	4.35~2.75V
Energy Density	300 Wh/L

Mechanical characteristics

Thickness (max)	4.5 mm
Width (max)	60 mm
Length (max)	105 mm (without terminal)
Typical weight	59.5 g

Operating conditions

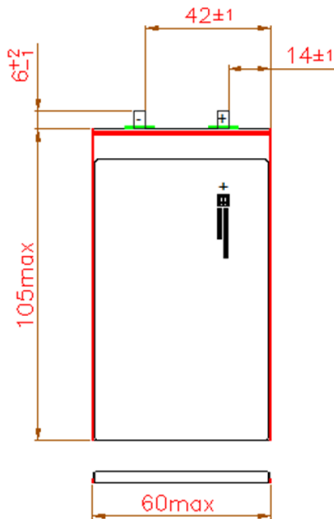
Standard charge	CC-CV (Constant Current & Constant Voltage) Current 0.2CmA/ Voltage 4.35V Cut-off current: 0.05C
Max charge current*	1CmA
Standard discharge	CC (Constant Current) Current 0.2CmA Cut-off voltage: 2.75V
Max discharge current*	1CmA
Operation window**	- 20°C to + 60°C

* Consult ProLogium for increasing charging/discharging current.

** Consult ProLogium for optimized charging below -20°C

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2D Drawing



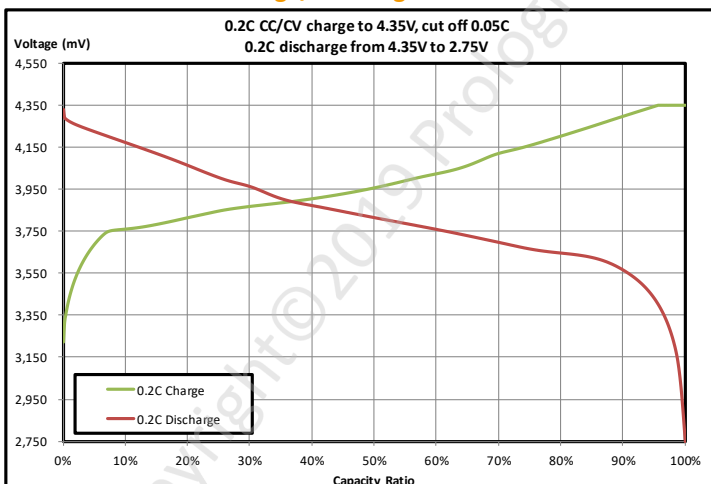
Unit: mm
 Tolerances: ±0.5mm

When handling ProLogium batteries:

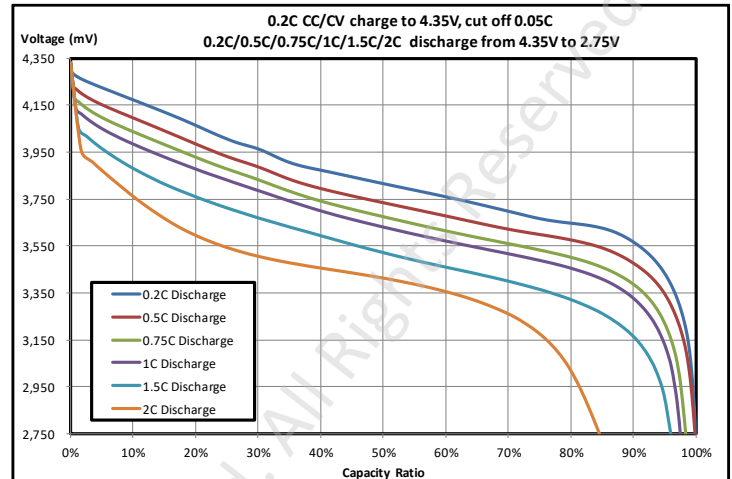
- Do not throw the battery into fire, nor heat.
- Do not disassemble nor modify.
- Do not leave in a place of $\geq 60^{\circ}\text{C}$.
- Prevent from water or moisture.
- Do not add strong shock, nor drop.
- Do not solder lead directly to battery body.
- Do not short + and - terminals with metal.
- Do not charge beyond the condition which described on the delivery specification.
- Do not inverse charge.

Typical characteristics:

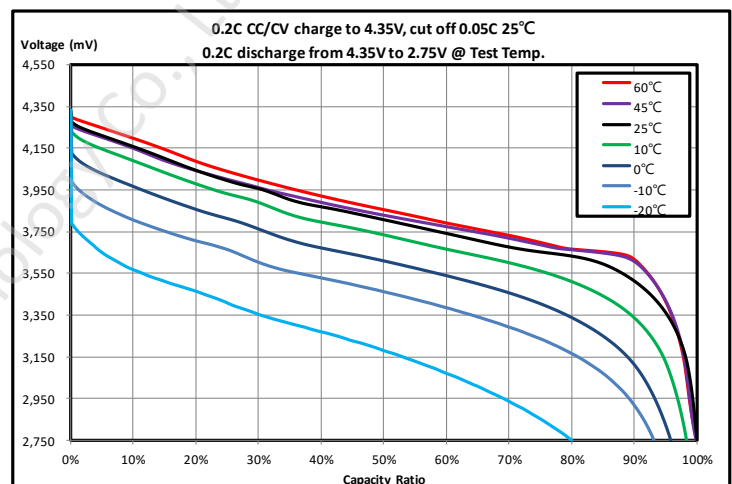
Charge/Discharge Profile



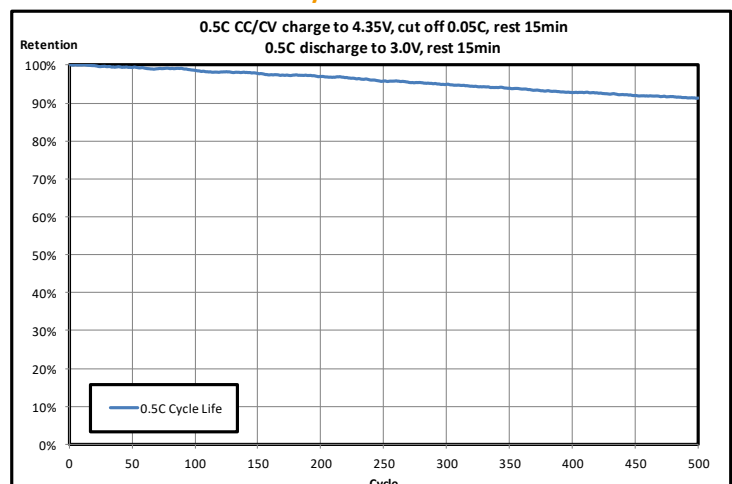
Discharge Profiles (0.2/0.5/0.75/1/1.5/2C Rate)



Operation Temperature Test (-20°C to +60°C)



Cycle Life Test



*charge/discharge/cycle tests criteria: @room temp. (25°C)