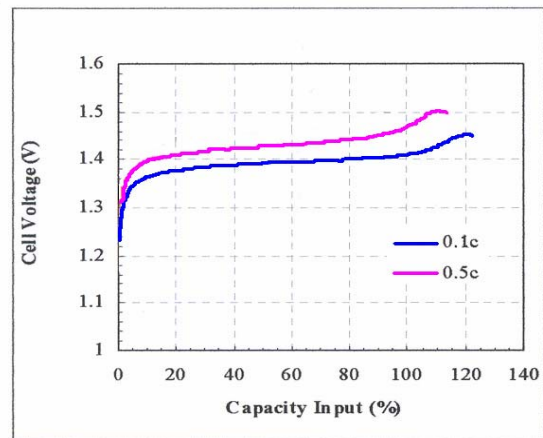




| | | |
|------------------------|----------|--|
| Nominal Voltage : | 1.20 V | |
| Open Circuit Voltage : | ≥ 1.40 V | after 16h/0.1C charge |
| Nominal Capacity | 2700 mAh | at 0.2C discharge to 1.0V after 16h/0.1C charge* |
| Minimum Capacity : | 2500 mAh | at 0.2C discharge to 1.0V after 16h/0.1C charge* |
| Weight ± 5 g : | 33 g | |
| Int. Resistance : | ≤25 mΩ | at 1 kHz |

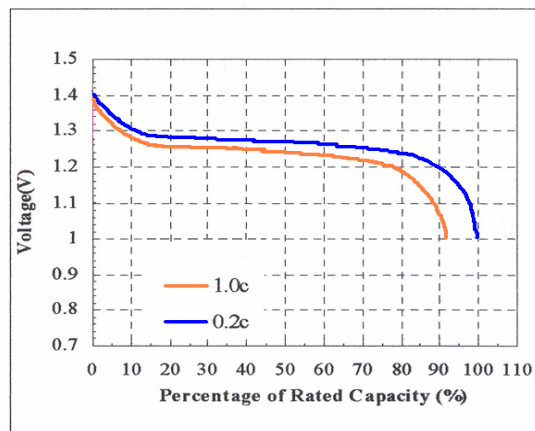
Charge Characteristics

| | |
|-------------------|------------------------|
| Standard Charge : | 16 h x 0.1 C (270mA) |
| Fast Charge : | 2.4 h x 0.5 C (1350mA) |



Discharge Characteristics

| | |
|-----------------|---------|
| end 1.0 V | |
| 0.2 C (540mA)* | 300 min |
| 1.0 C (2700mA)* | 55 min |



* test condition: 20 ± 5°C

Performance Characteristics

| | | |
|-------------------------|--------------|--------------|
| Storage Temperature : | min -20 °C | max 40°C |
| Operating Temperature : | min -10 °C | max 45°C |
| Cycle life test : | IEC standard | > 300 cycles |

Cycle life performance (IEC)

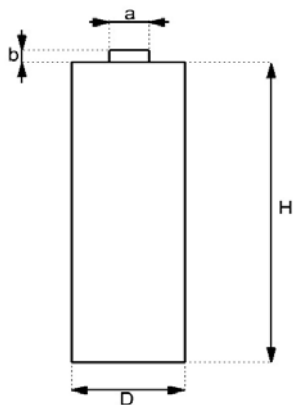
| Cycle number | Charge | Rest | Discharge |
|--------------|-----------------|-------|-----------------|
| 1 | 0.1 C / 16 h | no | 0.25C 2.33 h |
| 2 to 48 | 0,25 C / 3.17 h | no | 0.25C / 2.33 h |
| 49 | 0.25 C / 3.17 h | no | 0.25 C to 1.0 V |
| 50 | 0.1 C / 16 h | 1-4 h | 0.25 C to 1.0 V |

The endurance test is considered complete when two such seccessive cycles give a discharge duration less than 3 h of any 50th cycle

Safety Performance

| | | |
|--------------------|--|---|
| Drop test | Drop to an concrete floor from a height of 75 cm 4 times after fully charge and discharge | No machanical and electrical abnormality |
| Short-circuit | Short-circuit for 2 hours with 0,75qmm wire after fully charge and discharge | No explosion |
| Overcharge test 1 | Charge 0.1C / 16h, charge 0.1C / 48h rest 1h, discharge 0.1C to 1.0V | Discharge time should be > 5h |
| Overcharge test 2 | Charge 1.7A (-dV:5mV), rest 10 min, charge 1.7A (-dV:5mV) rest 10 min, charge 1.7A (-dV:5mV) | No leakage should occurr |
| Reverse charge | Charge in reversed polarity 1C / 6 h after fully discharge | No explosion |
| Drop-overcharge | Discharge 1.0C to 1.0 V, discharge 0.2C to 1.0 V, drop to an concrete floor 3 times, charge 1.0C / 5h | No explosion |
| Drop short-circuit | Charge 0.1C / 16h, drop to an concrete floor 3 times, short-circuit for 2 hours with 0,75qmm wire | No explosion |
| Fire | Stay in fire (250°C) for 15 minutes after fully charged | No explosion |

Dimensions



| | |
|--|----------|
| Height (H) $\pm 0.25\text{mm}$ | 50.25 mm |
| Diameter (D) $\pm 0.25\text{mm}$ | 14.0 mm |
| Nipple height (b) $\pm 0.1\text{mm}$ | 1.0 mm |
| Nipple diameter (a) $\pm 0.1\text{mm}$ | 5.3 mm |

Don't disassemble and don't mix with used or other battery types.
Don't dispose to fire.
Remove batteries when not in use for long periods.