

Lithium Ion Cell
CGR-B/T54SEB
Specification

1. Application Range

This specification is applied to Lithium ion cells CGR-B/T54SEB which will be used for lithium ion battery packs to be manufactured

Applied standard(regulation): UL1642, UN38.3

Confirmation should be done, except for mentioned above standard(regulation).

2. Rated specification

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| 2.1. Rated voltage: | 3.6V |
| 2.2. Rated capacity: | 2100mAh (Min.cap. in quick charging, standard discharging(1) at 20°C) Min 2150mAh, Typ.2250mAh (in quick charging, standard discharging(2) at 25°C) |
| 2.3. Standard charging: | 4.2V, 430mA, 110mA end (Constant voltage, constant current) (Approval maximum charging voltage by tolerance: 4.25V) |
| 2.4. Quick charging: | 4.2V, 1500mA, 110mA end, 25°C (Constant voltage, constant current) (Approval maximum charging voltage by tolerance: 4.25V) Charging method and charger are only those designated. |
| 2.5. Standard discharging : | 430mA (Constant current, 3.0V end, 25°C) |
| 2.6. Continuous allowable discharging current: | 10A (25°C or under) |
| 2.7. Temperature and humidity range: | 0 to 45°C, 45 to 85%RH (in standard charging) 10 to 45°C, 45 to 85%RH (in quick charging) -20 to 60°C, 45 to 85%RH (in standard discharging) |
| 2.8. Storage Temperature and humidity range: | -20 to 35°C, 45 to 85%RH (within 1 year) -20 to 40°C, 45 to 85%RH (within 6 months) -20 to 45°C, 45 to 85%RH (within 1 month) -20 to 50°C, 45 to 85%RH (within 1 week) |

(Notes) The capacity recovery rate in the delivery state (30% capacity of fully charged) after storage is assumed to be 80% or more.

- 2.9. Volume Energy density: 449.1 Wh/l

(Notes) This value is calculated by rated capacity, rated voltage and cell volume without shrink tube.

3. Remarks

- 3.1. Maximum voltage at standard and quick charging: The cell voltage must not exceed 4.25V.
Even if factoring charge voltage control accuracy, the maximum voltage must never exceed 4.25V with any charge method(including pulse charge).
- 3.2. Protection circuit overdischarge prohibition voltage: The cell voltage must not be below 2.30V.
- 3.3. Maximum surface temperature: The cell temperature must not exceed 70°C
- 3.4. Pack construction(restriction of cell quantity for the battery pack):
Maximum quantity number: in series = ? cells, in parallel = ? cells <= To be discussed