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| Spec. No. | INR18650-35E | Version No. | Ver. 1.1 |
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# **SPECIFICATION OF PRODUCT**

**for Lithium-ion rechargeable cell**

**Model name : INR18650-35E**

**July, 9<sup>th</sup>, 2015**

**Samsung SDI Co., Ltd.**

**Cell Business Division**

|           |              |             |          |
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## 1. Scope

This product specification has been prepared to specify the rechargeable lithium-ion cell ('cell') to be supplied to the customer by Samsung SDI Co., Ltd.

## 2. Description and Model

|                 |                                      |
|-----------------|--------------------------------------|
| 2.1 Description | Cell (lithium-ion rechargeable cell) |
| 2.2 Model       | INR18650-35E                         |
| 2.3 Site        | Manufactured in Korea                |

## 3. Nominal Specifications

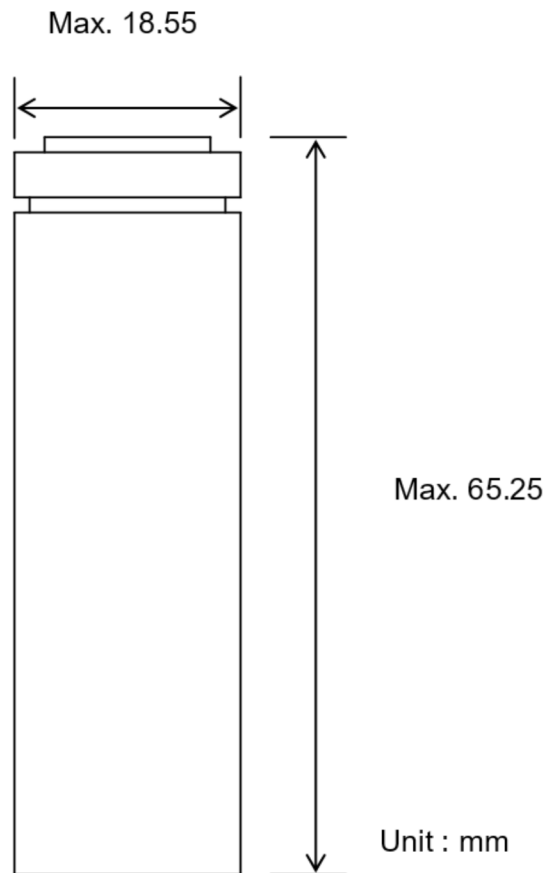
| Item                                                     | Specification                                                                                                                          |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 3.1 Standard discharge Capacity                          | Min 3,350mAh<br>- Charge : 0.5C(1,700mA), 4.2V, 0.02C(68mA) cut-off @RT<br>- Discharge : 0.2C(680mA), 2.65V cut-off @RT<br>*1C=3,400mA |
| 3.2 Charging Voltage                                     | 4.2V                                                                                                                                   |
| 3.3 Nominal Voltage                                      | 3.60V                                                                                                                                  |
| 3.4 Charging Method                                      | CC-CV<br>(constant voltage with limited current)                                                                                       |
| 3.5 Charging Current                                     | Standard charge: 1,700mA<br>For cycle life : <b>1,020mA</b>                                                                            |
| 3.6 Charging Time                                        | Standard charge: 4hours                                                                                                                |
| 3.7 Max. Charge Current                                  | 2,000mA (not for cycle life)                                                                                                           |
| 3.8 Max. Discharge Current                               | 8,000mA (for continuous discharge)<br>13,000mA (not for continuous discharge)                                                          |
| 3.9 Discharge Cut-off Voltage                            | 2.65V                                                                                                                                  |
| 3.10 Cell Weight                                         | 50 g max                                                                                                                               |
| 3.11 Cell Dimension                                      | Height : Max. 65.25 mm<br>Diameter: Max. $\Phi$ 18.55 mm                                                                               |
| 3.12 Operating Temperature<br>(Cell Surface Temperature) | Charge : 0 to 45°C<br>Discharge : -10 to 60°C                                                                                          |
| 3.13 Storage Temperature                                 | 1 year : -20~25°C (1*)<br>3 months : -20~45°C (1*)<br>1 month : -20~60°C (1*)                                                          |

Note (1): If the cell is kept as ex-factory status (30% of charge),  
The capacity recovery rate is more than 80%.

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#### **4. Outline Dimensions**

See the Fig. 1



**Fig. 1 Outline Dimensions of INR18650-35E**