

Spec. No.	INR18650-25R	Version No.	1.0	In-Young Jang
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1.0. 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.

2.0. Description and model name

- 2.1 Description lithium-ion rechargeable cell
- 2.2 Model name INR18650-25R

3.0. Nominal specifications

Item	Specification
3.1 Nominal discharge capacity	2,500mAh Charge: 1.25A, 4.20V, CCCV 125mA cut-off, Discharge: 0.2C, 2.5V discharge cut-off
3.2 Nominal voltage	3.6V
3.3 Standard charge	CCCV, 1.25A, 4.20 ± 0.05 V, 125mA cut-off
3.4 Rapid charge	CCCV, 4A, 4.20 ± 0.05 V, 100mA cut-off
3.6 Charging time	Standard charge : 180min / 125mA cut-off Rapid charge: 60min (at 25 °C) / 100mA cut-off
3.7 Max. continuous discharge (Continuous)	20A(at 25 °C), 60% at 250 cycle
3.8 Discharge cut-off voltage End of discharge	2.5V
3.9 Cell weight	45.0g max
3.10 Cell dimension	Height : 64.85 ± 0.15mm Diameter : 18.33 ± 0.07mm
3.11 Operating temperature (surface temperature)	Charge : 0 to 50 °C (recommended recharge release < 45 °C) Discharge: -20 to 75 °C (recommended re-discharge release < 60 °C)
3.12 Storage temperature (Recovery 90% after storage)	1.5 year -30~25 °C (1*) 3 months -30~45 °C (1*) 1 month -30~60 °C (1*)

Note (1): If the cell is kept as ex-factory status (50±5% SOC, 25 °C),
the capacity recovery rate is more than 90% of 10A discharge capacity
100% is 2,450mAh at 25 °C with SOC 100% after formation.