

# Samsung INR21700-58E



## 3.Nominal specifications

Item	Specification
3.1 Standard discharge capacity	Min.5330mAh
	- Charge:0.5C,4.2V,0.02C cut-off@RT
	- Discharge:0.2C,2.5V cut-off@RT
	*1C=5330mA
3.2 Rated discharge capacity	Min.5170mAh
	- Charge:0.5C,4.20V,0.02C cut-off@RT
	- Discharge:1C,2.5V cut-off@RT
3.3 Charging Voltage	4.2V
3.4 Nominal voltage	3.64V
3.5 Charge Method	CC-CV(constant voltage with limited current)
3.6 Charging Current	Standard charge:0.5C
	For cycle life:0.5C
3.7 Charging time	Standard charge:4 hours
3.8 Max.Charge Current	1C(not for cycle life)
3.9 Max.Discharge Current	2C(for continuous discharge)
	3C(not for continuous discharge)
3.10 Discharge cut-off voltage	2.5V(End of discharge)
3.11 Cycle life	Capacity $\geq$ 4136mAh @ after 500cycles
	(80% of the Rated Capacity@RT)
	- Charge:0.5C,4.20V,CCCV 0.05C cut-off@RT
	- Discharge:1C,2.5V cut-off@RT
3.12 Storage characteristics	Capacity recovery(after the storage) $\geq$ 4797mAh
	(90% of the Standard capacity@RT)
	- Charge:0.5C,4.20V,0.02C cut-off@RT
	- Storage:20 days(@60°C)
	- Discharge:0.2C,2.5V cut-off@RT
3.13 Cell weight	74g max
3.14 Cell dimension	Height:Max.71mm
	Diameter:Max.21.78mm
3.15 Operating Temperature	Charge:0 to 45°C(Ambient)
	Discharge:-10 to 60°C(Ambient)
3.16 Recovery 80% after storage	1 year -20~23°C
	3 months -20~45°C
	1 month -20~60°C