

**Samsung INR21700-45T**



**Nominal specifications**

Item	Specification
3.1 Standard discharge capacity	Typ.4500mAh,Min.4400mAh - Charge:0.5C(2.25A),4.2V,0.05C(225mA)cut-off@RT - Discharge:0.2C(0.9A),2.5V cut-off@RT *1C=4500mA
3.2 Rated discharge capacity	Min.4300mAh - Charge:6A,4.20V,100mA cut-off@RT - Discharge:10A,2.5V cut-off@RT
3.3 Nominal voltage	3.6V
3.4 Standard charge	CCCV,2.25A,4.2V,225mA cut-off
3.5 Raged charge	CCCV,6A,4.20V,100mA cut-off
3.6 Charging time	Standard charge:150min/225mA cut-off(@RT) Rated charge:75min/100mA cut-off(@RT)
3.7 Max.continuous discharge(Surface temperature)	35A(Without temperature cut) 50A(With 80°C temperature cut)
3.8 Max.charge current	9A(for step charge) 6A(continuous charge)
3.9 Discharge cut-off voltage	2.5V(End of discharge)
3.10 Cycle life	Capacity $\geq$ 2700mAh @ after 250cycles (60% of the standard capacity@RT) - Charge:6A,4.20V,CCCV 100mA cut-off@RT - Discharge:35A,2.5V cut-off@RT Capacity $\geq$ 2700mAh @ after 100cycles (60% of the standard capacity@RT) - Charge:6A,4.20V,CCCV 100mA cut-off@RT - Discharge:50A,2.5V cut-off@RT (80°C cut-off,re-discharge release<50°C)@RT
3.11 Storage characteristics	Capacity recovery(after the storage) $\geq$ 3870mAh (90% of the rated capacity@RT) - Charge:6A,4.20V,CCCV 100mA cut-off@RT - Storage:30 days(@60°C) - Discharge:10A,2.5V cut-off@RT
3.12 Cell weight	72g max
3.13 Cell dimension	Height:Max.70.62mm Diameter:Max.21.35mm
3.14 Operating temperature (Ambient)	Charge:-10 to 60°C(-10 to 0:Safety performance on) Discharge:-20 to 60°C
3.15 Operating temperature(Surface)	Charge:-10 to 60°C(-10 to 0:Safety performance on) (recommended recharge release <45°C) Discharge:-20 to 60°C (must re-discharge release <60°C)
3.16 Storage temperature	1 year -20~23°C 3 months -20~45°C 1 month -20~60°C