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### 3. Extent of the Application

This specification is applied to Lithium Ion Battery of NCA596080

For special applications in which quality and reliability are required, or if the failure or malfunction of the products may directly jeopardize life or cause threat of personal injury such as for weapon, aircraft and aerospace equipment, aircraft electronics equipment, medical equipment (a part of class 2 equipment, class 3 or more equipment), or cause large-scale system troubles, explosion-proof equipment, electric vehicle, hybrid electric vehicle, and electric motor cycle (except electric power-assisted bicycle), this specification shall not be applied.

### 4. Battery Classification, Product Code and Model Name

4.1 Battery Classification	Lithium Ion Battery
4.2 Product Code	
4.3 Model Name	NCA596080
4.4 Cell Type	NCA596080

### 5. Nominal Specifications

Items		Specifications	Notes
5.1	Rated Capacity	3950 mAh	0.79A discharge at 20°C
5.2	Capacity	Minimum	4040 mAh
		Typical	4170 mAh
			0.808A discharge at 25°C
			Reference only
			0.808A discharge at 25°C
5.3	Nominal Voltage	3.6V	0.808A discharge at 25°C
5.4	Discharging End Voltage	2.75V	
5.5	Charging Current (Std.)	2.8A	
5.6	Charging Voltage	4.20 ± 0.03V	
5.7	Charging Time (Std.)	3.0 hours	
5.8	Continuous Discharging Current (Max.)※1	8.08A	0 ~ +40°C
5.9	Internal Resistance	less than 100mΩ	AC Impedance 1 kHz
5.10	Weight	less than 67.3g	
5.11	Operating Temperature	Charge	10 ~ +45°C
		Discharge	-20 ~ +60°C
5.12	Storing Conditions	less than 1 month	-20 ~ +50°C
		less than 3 months	-20 ~ + 40°C
		less than 1 year	-20 ~ + 20°C
			Percentage of recoverable capacity
			80%※2

※1 The maximum discharge current for a single cell use. However after the battery pack assembly, there will be a limitation of maximum discharge current due to a protection circuit or a protection device.

※2 Percentage of recoverable capacity

= (Discharging time after storage / Initial discharging time) × 100

The discharging time is measured by the discharge current of 0.808A until 2.75V of end voltage after the battery is fully charged at 25°C.

File No	NCA596080	Portable Rechargeable Battery Business Division, SANYO Electric Co., Ltd.
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