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Confidential

Title

Specifications of Lithium Ion battery (Prismatic Type)

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3. Extent of the Application

This specification is applied to SANYO Lithium Ion Battery of NCA103450

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 and Type

4.1 Battery Classification

4.2 SANYO Model No.

4.3 Cell Type

SANYO Lithium Ion Battery

NCA103450

NCA103450

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5. Nominal Specifications

Items				Specifications	Notes
5.1	1 Rated Capacity			2200 mAh	0.45A discharge at 20°C
5.2	Capacity	Minimum		2270 mAh	0.45A discharge at 25°C
		Typica		2350 mAh	Reference only 0.45A discharge at 25°C
5.3 Nominal Voltage				3.6V	0.45A discharge at 25℃
5.4	5.4 Discharging End Voltage			2.75V	
5.5	.5 Charging Current (Std.)			1.59A	T P
5.6	6 Charging Voltage			4.20±0.03V	
5.7	Charging Time (Std.)			3.0 hours	
5.8	B Continuous Discharging Current (Max.) <sup>361</sup>			4.54A	0~+40°C
5.9	9 Internal Resistance			less than 100mΩ	AC Impedance 1 kHz
5.10	Weight	AL DEP		less than 40.3g	
5.11	OCV Range			3.61 ~ 3.64V	at the point of shipment
- 40		Char	ge	10 ~ +45°C	
5.12	Operating Tempera	Discha	rge	-20 ~ +60°C	
5.13		less than 1 month		-20 ~ +50°C	Percentage of
Storing Conditions less than 3 months			-20 ~ + 40°C	recoverable capacity	
		less than 1 year		-20 ~ + 20°C	80% <sup>352</sup>

X1 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.

X2 Percentage of recoverable capacity= (Discharging time after storage / Initial discharging time) ×100
The discharging time is measured by the discharge current of 0.45A until 2.75V of end voltage after the battery is fully charged at 25°C.

File No

NCA103450-009

Energy Company, SANYO Electric Co., Ltd.
Portable Rechargeable Battery Business Group
Lithium-Ion Battery Business Unit