

Title

Specifications of Lithium Ion battery (Cylindrical Type)

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3. Extent of the Application

This specification is applied to SANYO Lithium Ion Battery of UR18650Z-H06NA for Power Bank with Mobile Energy Technology Co., Ltd.

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	SANYO Lithium Ion Battery
4.2 SANYO Model No.	UR18650Z-H06NA
4.3 Cell Type	UR18650ZY

5. Nominal Specifications

Items		Specifications	Notes
5.1	Rated Capacity	2450 mAh	0.49A discharge at 20°C
5.2	Capacity	Minimum	2500 mAh
		Typical	2600 mAh
			Reference only 0.50A discharge at 25°C
5.3	Nominal Voltage	3.7V	0.50A discharge at 25°C
5.4	Discharging End Voltage	2.75V	
5.5	Charging Current (Std.)	1.75A	
5.6	Charging Voltage	4.20 ± 0.03V	
5.7	Charging Time (Std.)	3.0 hours	
5.8	Continuous Discharging Current (Max.) ^{※1}	5.0A	0 ~ +40°C
5.9	Internal Resistance	less than 100mΩ	AC Impedance 1 kHz
5.10	Weight	less than 48.0g	
5.11	Operating Temperature	Charge	0 ~ +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 0.50A until 2.75V of end voltage after the battery is fully charged at 25°C.

File No

UR1865-3330

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