1. Scope

This product specification defines the requirements of the rechargeable lithium ion cell to be

supplied to the customer by Shenzhen B&K Electronic., Ltd. Should there be any additional

information required by the customer, customers are advised to contact Shenzhen B&K Li-ion Battery Co., Ltd before selecting a solution.

2. Description and Model

2.1 Description: Rechargeable Lithium Ion Cell

2.2 Model : BK18650G26-2200mAh

3. Technical Information

3.1 Capacity Typical: 2230mAh (0.2C discharge)

Minimum: 2200 mAh

3.2 Nominal Voltage : Average 3.7 V

3.3 Standard Charge : Constant Current and Constant Voltage (CC/VV)

Current =1100mA

Voltage =4.20 V

End Current =22mA

3.4 Standard Discharge : Constant Current (CC)

Current =440mA

End Voltage =3.0V

3.5 Max. Pulse Discharge Current : 2C

3.6 Weight : 43±2g

3.7 Operating Temperature Charge : 0 to 46°C

Discharge : -20 to 60°C

3.8 Storage Temperature 1 month : -10 to 45 C

3 month : -5 to 35°C

4. Cell Dimensions

Diameter : 18.2 +0.2-0.2 mm

Height : 65.0 +0.5-0.5 mm

5. Appearances

There shall be no such defects as deep scratch, crack, rust, discoloration or leakage, which may adversely affect the commercial value of the cell.

Importer: BTO Sp. z o.o.

T: +48426724202 F: +48426724787
e-mail: biuro@bto.pl www: www.bto.pl, www.bto.net.pl

6. Characteristics

6.1. Standard Test Conditions

Unless otherwise specified, all tests stated in this Product Specification are conducted at temperature 20±5°C ,humidity 65±20 %RH and atmospheric pressure 86kPa—106kPa.

6.2 Standard Charge

Unless otherwise specified, “Standard Charge” shall consist of charging at constant current of 1100mA. The cell shall then be charged at constant voltage of 4.20V while tapering the charge current. Charging shall be terminated when the charging current has tapered to 22mA. Charging is to be performed at 20°C ± 5°C.

6.3 Standard Discharge

“Standard Discharge” shall consist of discharging at a constant current of 440mA to 3.0V.

Discharging is to be performed at 20 °C ± 5 °C unless otherwise noted (such as capacity versus temperature).

6.4 Initial Capacity

Cells shall be charged per 6.2 and discharged per 6.3 within 1 hour after full charge. Initial capacity shall meet the following requirement.

Initial Capacity ≥ 2200mAh

6.5 Cycle Life

Cells shall be charged at constant current of 1.1A to 4.20V with end current of 22mA. Cells shall be discharged at constant current of 1.1A to 3.0V. Cells are to rest 10 minutes after charge and 10 minutes after discharge. A cycle is defined as one charge and one discharge. Perform this cycle for 300 cycles and discharge.

Discharge capacity (300th Cycle) ≥80 % (First capacity)

6.6 Initial AC Impedance

Initial AC impedance measured at 1kHz at 3.80V±0.05V voltage .

Initial AC Impedance ≤ 70 mΩ

6.7 Temperature Dependency of Capacity

Cells shall be charged per 6.2 at 20°C ± 5°C and discharged per 0.2C5A 、1C、1C at the following temperatures. Relative capacity at each temperature shall meet the following.

Charge Temp.	Discharge Temperature			
23 °C	-20 °C	23°C	55 °C	

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