SPECIFICATIONS

Model:GH-3609

1. Type and Model

- A.Type:
- Li-ion battery pack (LiNiCoMnO₂)
- B.Model:
 - GH-3609

2. Basic Characteristics

Nominal Voltage	36 V				
Limited charge voltage	42.0±0.2 V				
Initial impedance	$\leq 260 \text{ m}\Omega$				
Capacity(Ah)	0.2 C discharge				
	Nominal Capacity		9Ah		
Max.discharge current	20A				
Charge method	Standard(CC/CV)		2A×8h		
Weight	2.70Kg				
Overcharge protive voltage(V)	4.20±0.01V(cell)	0	vercurrent protive value(A)	80A	
Overdischarge protive voltage(V)	2.70±0.10V(cell)				
Temperature & Humidity	0~45℃, 45-85%RH (Charging) -20~60℃, 45-85%RH (Discharging)				

Storage conditions	$-5 \sim 35^{\circ}$ C, 45-85%RH (within 6 months) - $5 \sim 40^{\circ}$ C, 45-85%RH (within 3 months) - $10 \sim 45^{\circ}$ C, 45-85%RH (within 1 month) - $10 \sim 50^{\circ}$ C, 45-85%RH (within 1 week)
Shipping Voltage	38.5-40.0 V

3. Electrical characteristic

No.	Item	Typical	Test Method			
1	Full charge		Charge until one li to green .	battery wi ght on the	th the spec charger char	ial charger, age from red
2	Nominal capacity	9 Ah	Make th rest for 0.5 voltage get made. It ca to 5 hours i	e fully cha ~1 hour. D tting to 27. n be stoppe n one case.	rged battery ischarge wit .0V. Five cy ed if dischar	y at 20±5℃ h 1.8A until ycles can be ge time gets
3	Cycle life (25℃)	Discharge capacity≥5.4Ah	Discharge the battery with constant current 4.5A until 27.0V. then full charge the battery. Discharge the battery with constant current 4.5A until 27.0V. 10 minutes rest and go on the next cycle. 800 cycles altogether.			
4	Impedance	Initial:≤260mΩ	Measured with a AC impedance meter of 1 KHz at room temperature 20±5°C after fully charged.			
5 Temperature to nomi dependence shall be the valu the right	The ratio of discharge capacity to nominal capacity shall be more than	Discharge the battery with constant cur 1.8A(0.2C) until 27.0V after 8 hours' stay the conditions below.		stant current ours' stay on		
	1	the value listed on the right.	-10°C	0°C	20°C	55℃
			60%	80%	100%	98%
6	Capacity retention	Discharge time ≥4h	30 days' stay under the condition $20\pm5^{\circ}$ C after fully charged, then discharge with 1.8A until 27.0V.			

		Discharge time≥3.5h	7 days' stay under the condition $60\pm2^{\circ}C$ after fully charged, then discharge with 1.8A until 27.0V.
7	Delivery voltage	38.5-40.0 V	Inspection before shipment

4. Standard Test Surroundings

Temperature: 20±5℃

Relative Humidity: 65±20% (unless with other requirement)

5. Standard Test Conditions

- 5.1 Test Conditions
 - 5.1.1 Test shall be done within 2 weeks after delivery.
 - 5.1.2 Battery for test shall not be charged and discharged in advance.

5.2 Test Device

- 5.2.1 Voltmeter: Accuracy ± 5 mV or better, inner impedance $10K\Omega/v$ or higher.
- 5.2.2 Ampere meter: Accuracy $\pm 5mV$ or better,

Resistance (including the meter and external wire) less than $10m\Omega$

- 5.2.3 Vernier calliper: Accuracy±1mm or better
- 5.2.4 Inner impedance meter: 1KHz sine wave, AC, 4 terminals
- 5.2.5 Balance: Accuracy±5g or better
- 5.2.6 Test Instrument: Accuracy±5mV, ±5mA or better

6. Declaration on Responsibility

You must obey the specifications manual while using the battery. The manufacturer disclaim all responsibility for damage cause by misuse.

7. Operation Description

- 7.1 The order of charging battery: please connect battery to charger and then to power.
- 7.2 The temperature will rise while charging and the rating lower than 50° C is normal.
- 7.3 In order to assure long cycle life, the battery should be charged a little longer to balance the capacity of cells when the lamp of charger shows green.
- 7.4 Don't worry if the charger start work again, it is because of capacity balance after the lamp of charger shows green.
- 7.5 Don't need to charge the battery after capacity exhaustion and the battery can be

charged just after use because the lithium-ion battery have no memory.

8. Warnings and Precautions

- 8.1 Charging the battery with special charger.
- 8.2 After using the electric bicycle, be sure to keep battery in having electricity state and turn off power switch or take battery out of electric bicycle.
- 8.3 Keep in shady, cool and dry condition if battery not work for a long time, and charge the battery in 2 hours per 1 month.
- 8.4 Don't use or leave the battery at very high temperature locations(over 60°C), such as heating, shining and near fire, etc.
- 8.5 Don't immerse the battery in the water, brine ,acidic or alkaline liquid, and avoid being caught in rain.
- 8.6 Don't reverse the positive and negative terminals.
- 8.7 Don't store the battery together with metal objects.
- 8.8 Prevention of short-circuit.
- 8.9 Prohibition of disassembly.
- 8.10 Prohibition of dumping battery into fire.
- 8.11 Scrap battery may cause danger, never throw them away at random.





Charge retention