

GIANT

Liv

momentum

—

SMART CHARGER

INSTRUCTION MANUAL



Table of contents

– Charger



CAUTION

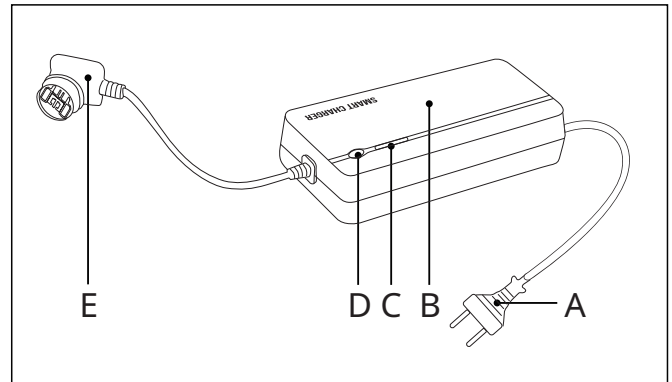
Use only a suitable charger provided with the e-bike or provided by Giant/Liv/Momentum.

Smart Charger 4A 48V Dual	_____	2
Smart Charger 4A 36V Dual	_____	3
Smart Charger 6A 36V Single	_____	4
Smart Charger 4A 36V Single	_____	5
Fast Charger	_____	6
– Charging	_____	7

Smart Charger 4A, 48V, Dual

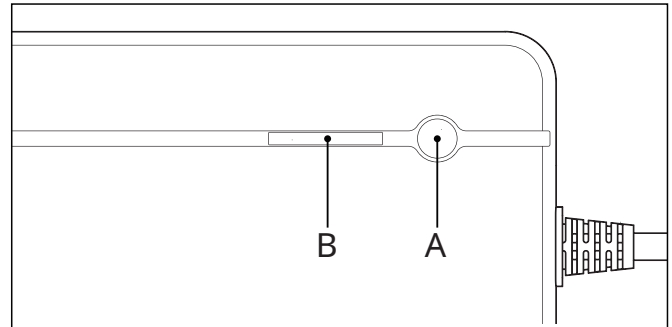
Parts Description

- A. AC socket (110V ~ 240V)
- B. Charger
- C. 60% charge indicator LED / Button
- D. 100% charge indicator LED
- E. Charge socket



LED Status Description

- A. LED
- B. Button / LED



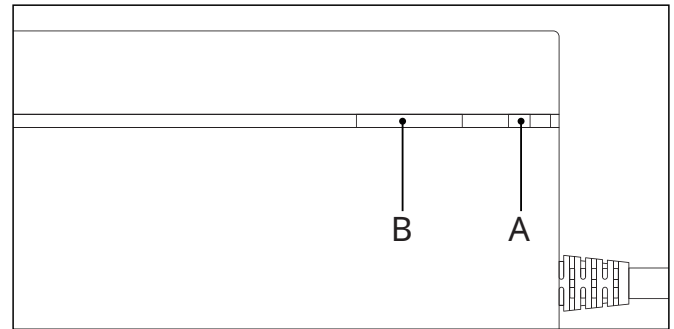
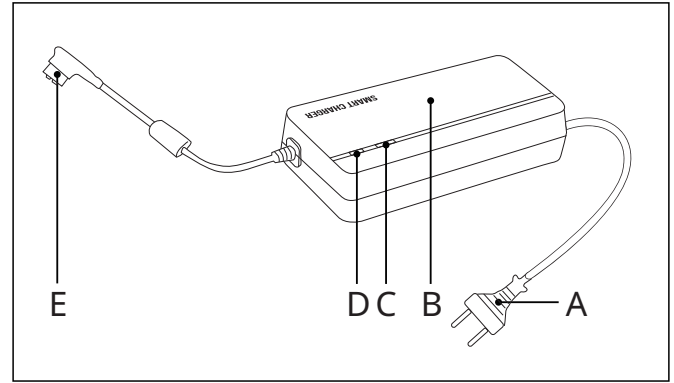
LED	Color	Behavior	Status
A	Red > Green > Off	Sequence	Power on self test
B	Green > Red > Off		
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Slow blinking (1.0 sec interval)	Battery charging over temperature protection
B	Yellow	Push button B	Activate storage charge (60% mode)
A	Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Voltage Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Current Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Temperature Protection)
A	Red > Green > Off	Sequence	Charging issue (Short Circuit Protection)
B	Green > Red > Off		

If there is a charging issue, please check the charging circuit, and disconnect the AC source of the charger, and then reconnect it after the LED goes out.

Smart Charger 4A, 36V, Dual

Parts Description

- A. AC socket
- B. Charger
- C. Button
- D. LED
- E. Charge socket



LED Status Description

- A. LED
- B. Button

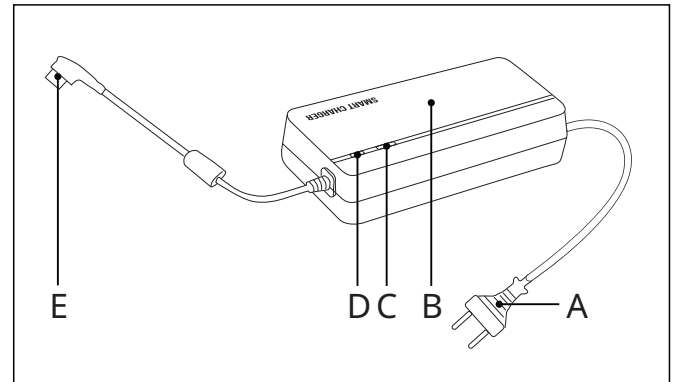
LED	Color	Behavior	Status
A	Red > Green > Off	Sequence	Power on self test
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Blinking (1.0 sec interval)	Battery charging over temperature protection
A	Yellow	Push button B	Activate storage charge (60% mode)
A	Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Voltage Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Current Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Temperature Protection)
A	Red > Green > Off	Sequence	Charging issue (Short Circuit Protection)

If there is a charging issue, please check the charging circuit, and disconnect the AC source of the charger, and then reconnect it after the LED goes out.

Smart Charger 6A, 36V, Single

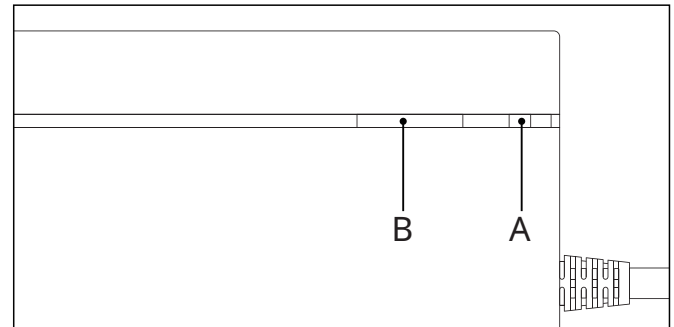
Parts Description

- A. AC socket
- B. Charger
- C. Button / LED
- D. LED
- E. Charge socket



LED Status Description

- A. LED
- B. Button / LED



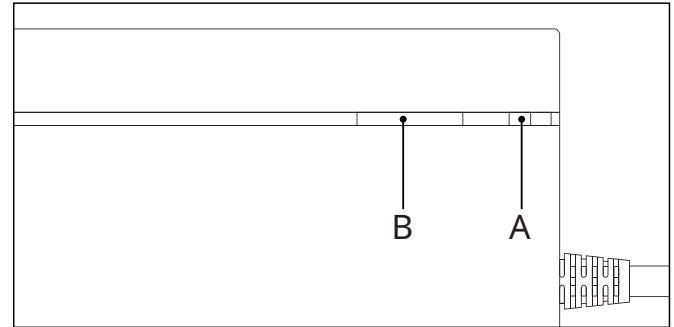
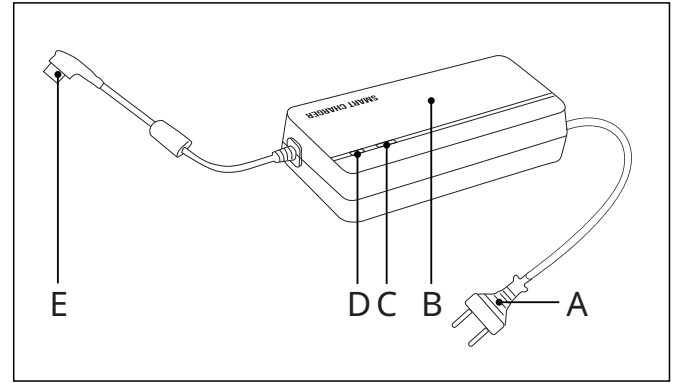
LED	Color	Behavior	Status
A	Red > Green > Off	Sequence	Power on self test
B	Green > Red > Off		
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Blinking (1.0 sec interval)	Battery charging over temperature protection
B	Yellow	Push button B	Activate storage charge (60% mode)
A	Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Voltage Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Current Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Temperature Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Short Circuit Protection)

If there is a charging issue, please check the charging circuit, and disconnect the AC source of the charger, and then reconnect it after the LED goes out.

Smart Charger 4A, 36V, Single

Parts Description

- A. AC socket
- B. Charger
- C. Button
- D. LED
- E. Charge socket



LED Status Description

- A. LED
- B. Button

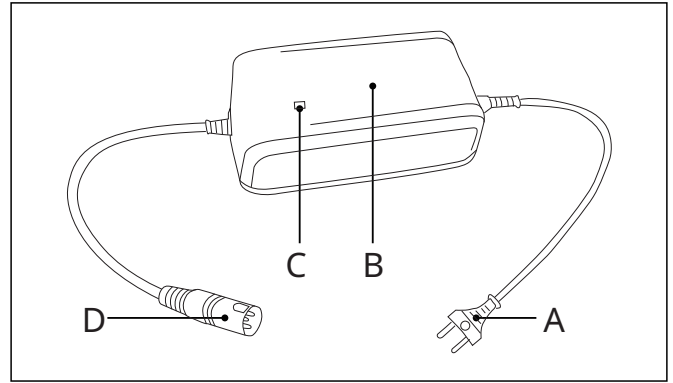
LED	Color	Behavior	Status
A	Red > Green > Red	Sequence	Power on self test
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Blinking (1.0 sec interval)	Battery charging over temperature protection
A	Yellow	Push button B	Activate storage charge (60% mode)
A	Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Voltage Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Current Protection)
A	Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (0.5s) > Red (0.5s) > Off (1.5s)	Sequence	Charging issue (Over Temperature Protection)
A	Red > Green > Off	Sequence	Charging issue (Short Circuit Protection)

If there is a charging issue, please check the charging circuit, and disconnect the AC source of the charger, and then reconnect it after the LED goes out.

Fast Charger 3A/4A, 36V

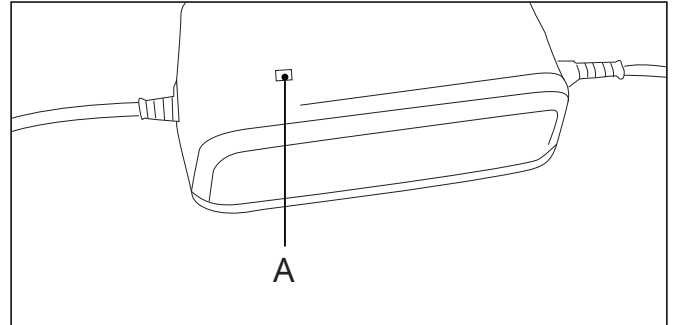
Parts Description

- A. AC socket
- B. Charger
- C. LED
- D. Charge socket



LED Status Description

- A. LED



LED	Color	Behavior	Status
A	Red	On	Power on self test
A	Red	Blink	Charging issue
A	Green	On	No battery / Battery full

Charging



CAUTION

- Always take care to align all connectors properly before connecting.
- Charge the EnergyPak battery at room temperature ($\pm 20^{\circ}\text{C}/68^{\circ}\text{F}$).
- Charging below 0°C or above 40°C ($32^{\circ}\text{F}\sim 104^{\circ}\text{F}$) can lead to insufficient charging and can have a negative impact on the battery life cycle.
- Make sure the bike is steady and standing firmly when charging the EnergyPak on the bike.
- Do not sit on the bike, move the bike or rotate the cranks while the charger is connected to the bike.

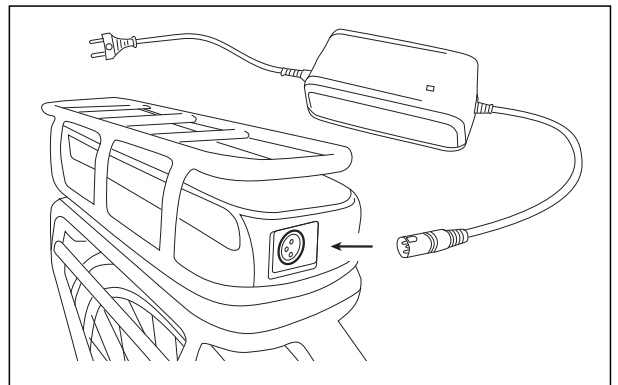
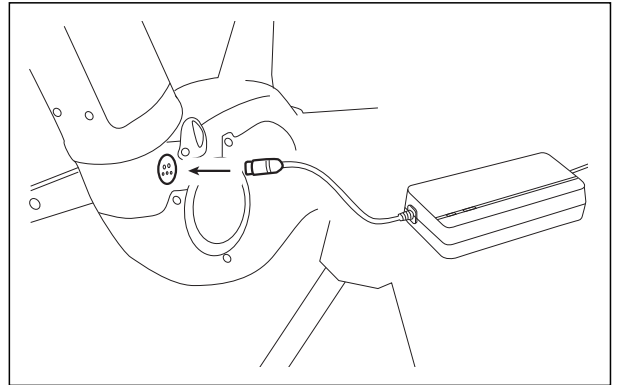
With the EnergyPak attached to the bike

Start charging

- Connect the charger to the charge port of the EnergyPak.
- Connect the charger to an AC outlet.
- The charging process starts.

Stop charging

- Disconnect the charger from the AC outlet.
- Disconnect the charger from the EnergyPak.



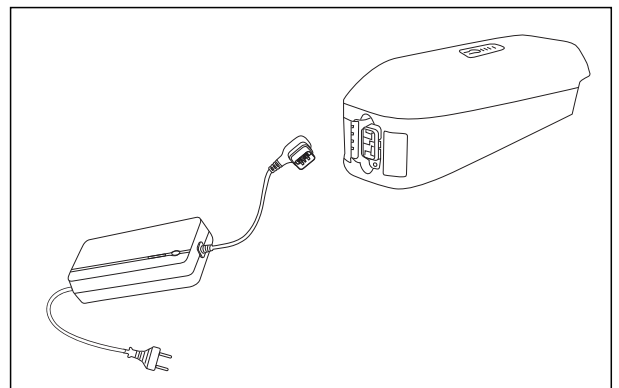
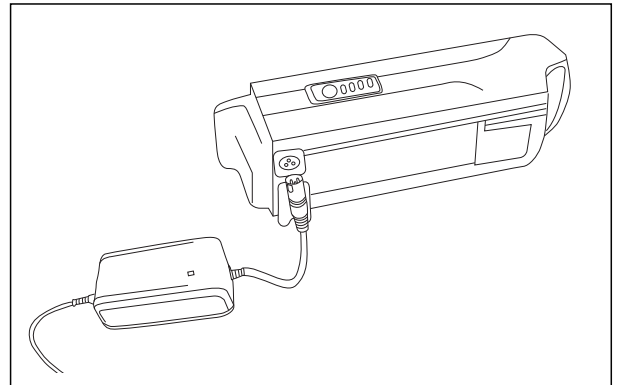
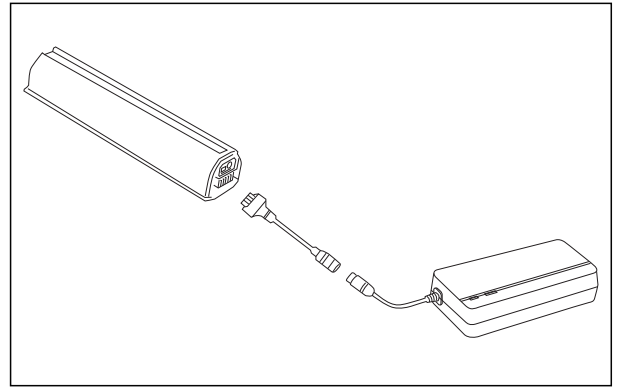
With the EnergyPak removed from the bike

Start charging

- Remove the EnergyPak from the bike.
- Connect the charger to the charge port of the EnergyPak.
- Connect the charger to an AC outlet.
- The charging process starts.

Stop charging

- Disconnect the charger from the AC outlet.
- Disconnect the charger from the EnergyPak.
- Place the EnergyPak back into the bike.



NOTICE

Disconnect the charger from the EnergyPak and AC outlet when the EnergyPak is fully charged.



INFO

- The LED(s) on the charger show the process status.
- The LED indicator on the EnergyPak shows current battery level.
- Charging can be stopped / interrupted at any time.

進口商:

巨大機械工業股份有限公司
40763台中市西屯區東大路一段999號 | 04-23112357

GIANT JAPAN CO., LTD. | 株式会社ジャイアント

한국판매후전화 | +82-2-463-7171

GIANT EUROPE B.V.
Pascallaan 66 8218 NJ Lelystad

GIANT UK LTD.
Charnwood Edge, Syston Road, Cossington, LE7 4UZ,UK

Manufacturer:

QQE Technology Co., Ltd.
3F., No. 541, Zhongzheng Rd., Xindian Dist., New Taipei City 231, Taiwan (R.O.C.)