GIANT

Liv

momentum

SMART CHARGER

INSTRUCTION MANUAL

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— Charger

CAUTION

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

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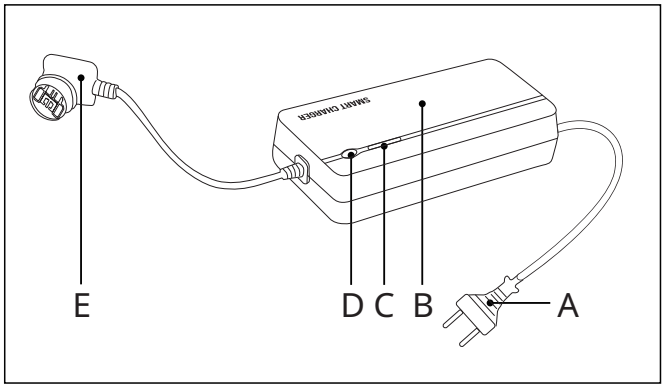
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Smart Charger 4A, 48V, Dual

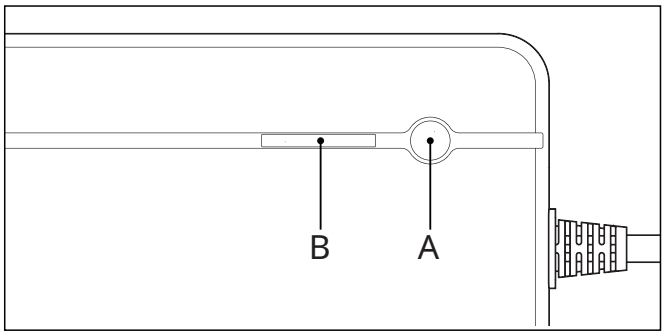
Parts Description

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



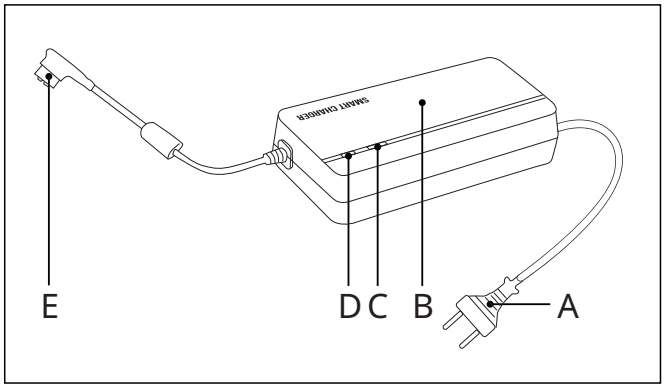
LED	Color	Behavior	Status
A B	Red > Green> Off Green > Red > Off	Sequence	Power on self test
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Slow blinking (1.0 sec interval)	Battery charging over tem-perature protection
B	Yellow	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 B	Red > Green > Off Green > Red > 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 4A, 36V, Dual

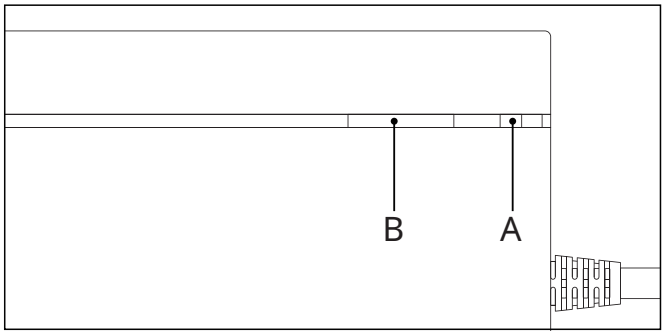
Parts Description

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



LED Status Description

A. LED
B. Button



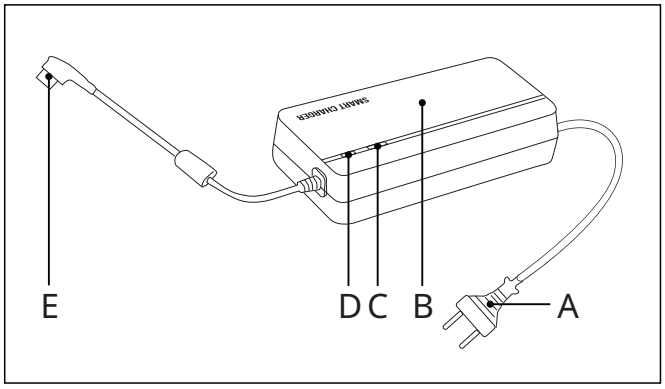
LED	Color	Behavior	Status
A	Red > Green > Off	Sequence	Power on self test
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Blinking (1.0 sec interval)	Battery charging over temperature protection
A	Yellow	Push button B	Activate storage 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

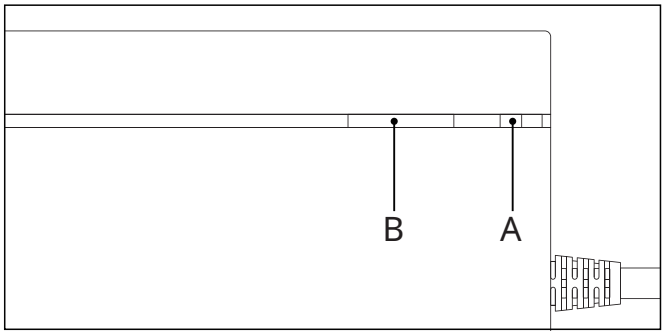
Parts Description

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



LED Status Description

A. LED
B. Button / LED



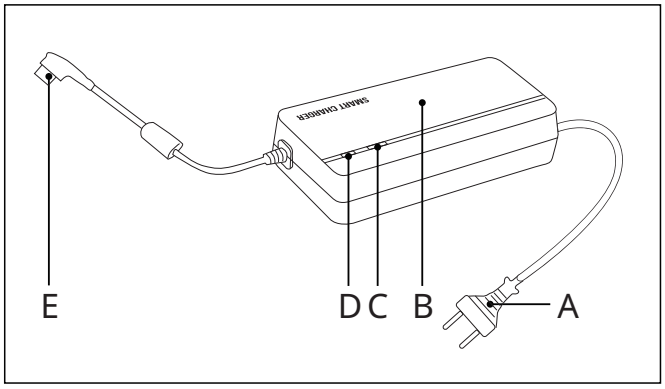
LED	Color	Behavior	Status
A B	Red > Green > Off Green > Red > Off	Sequence	Power on self test
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Blinking (1.0 sec interval)	Battery charging over temperature protection
B	Yellow	Push 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

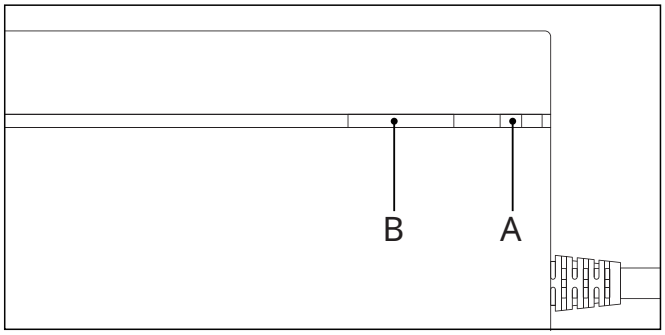
Parts Description

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



LED Status Description

A. LED
B. Button



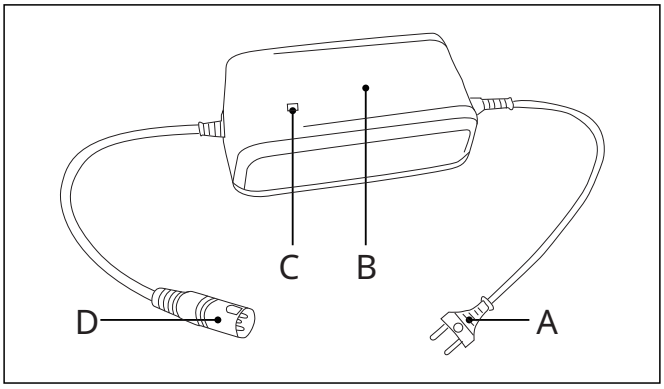
LED	Color	Behavior	Status
A	Red > Green > Red	Sequence	Power on self test
A	Red	On	No battery connected
A	Green	Blinking (0.5 sec interval)	Charging active
A	Green	On	Charging completed
A	Green	Blinking (1.0 sec interval)	Battery charging over temperature protection
A	Yellow	Push button B	Activate storage 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

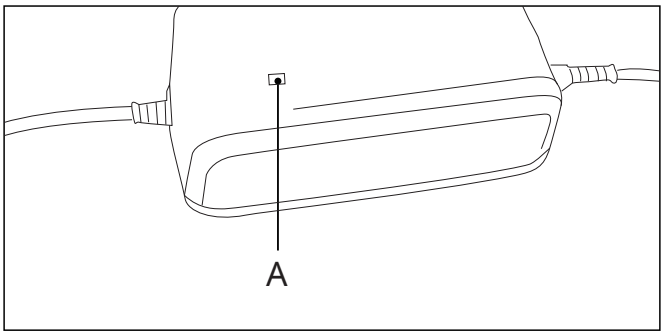
Parts Description

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



LED Status Description

A. LED

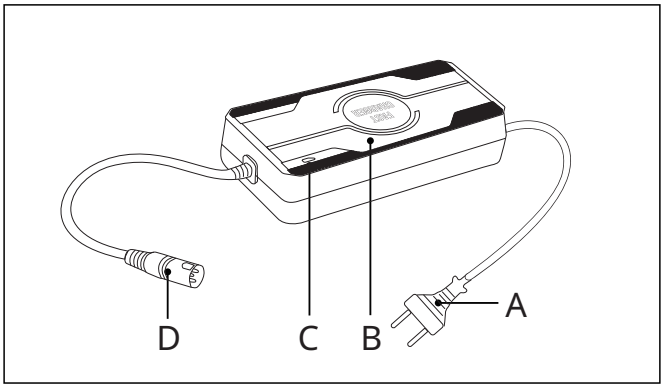


LED	Color	Behavior	Status
A	Red	On	Power on self test
A	Red	Blink	Charging issue
A	Green	On	No battery / Battery full

Fast Charger 3A, 48V

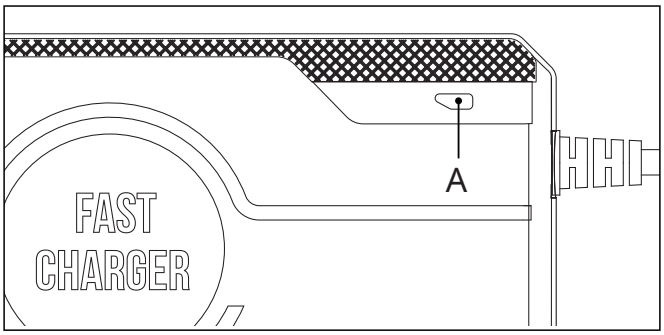
Parts Description

A. AC socket (100V~240V)
B. Charger
C. Charge indicator 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 (±20°C/68°F).
- Charging below 0°C or above 40°C (32°F~104 °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.

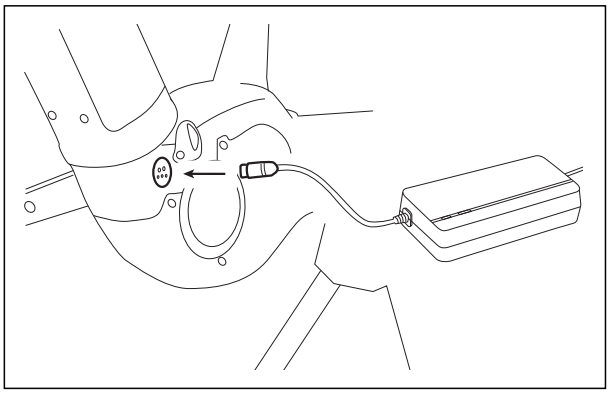
With the EnergyPak attached to the bike

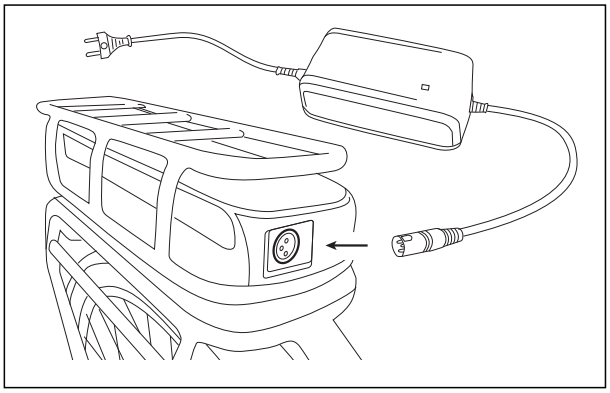
Start charging

- 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.

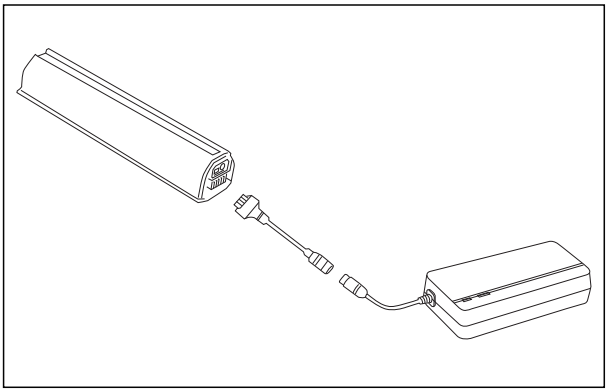




With the EnergyPak removed from the bike

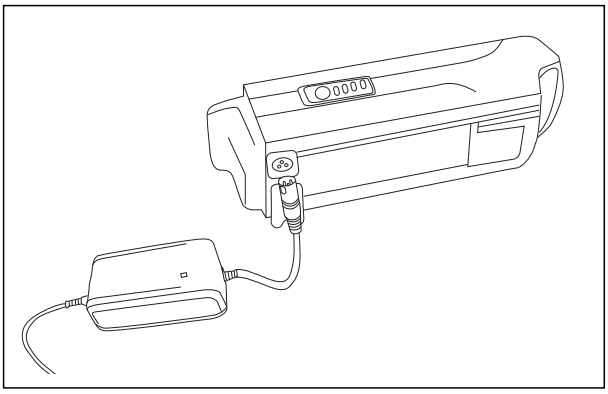
Start charging

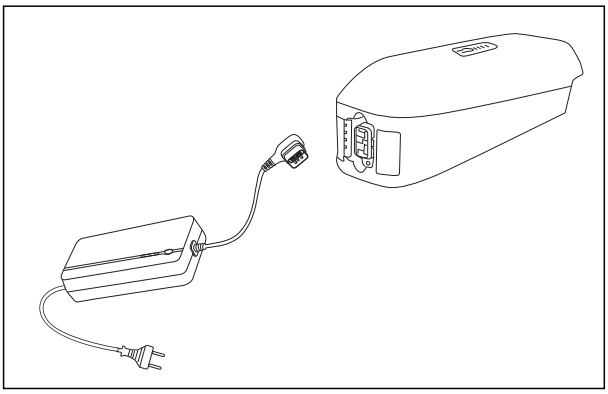
- Remove the EnergyPak from the bike.
- Connect the charger to the charge port of the EnergyPak.
- Connect the charger to an AC outlet.
- The charging process starts.



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.

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