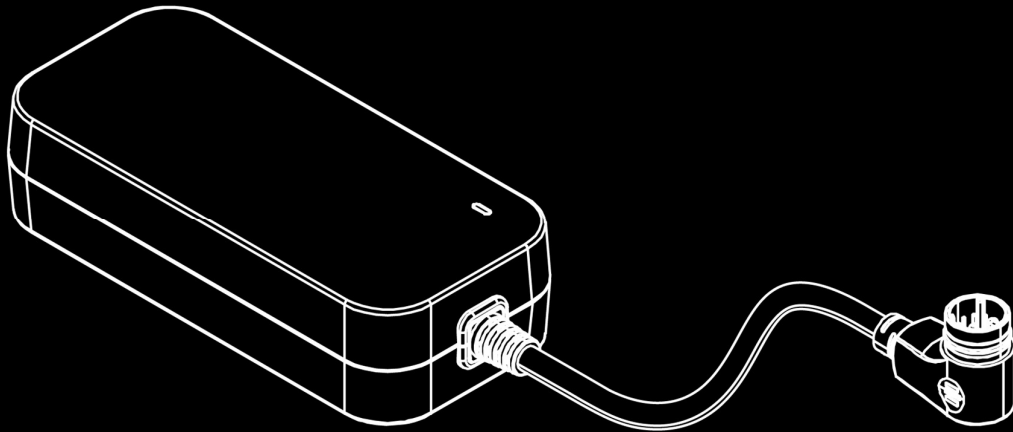




Product Manual

CG-E32

E-Bike Battery Charger



Original Instruction

Version 231220

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Introduction

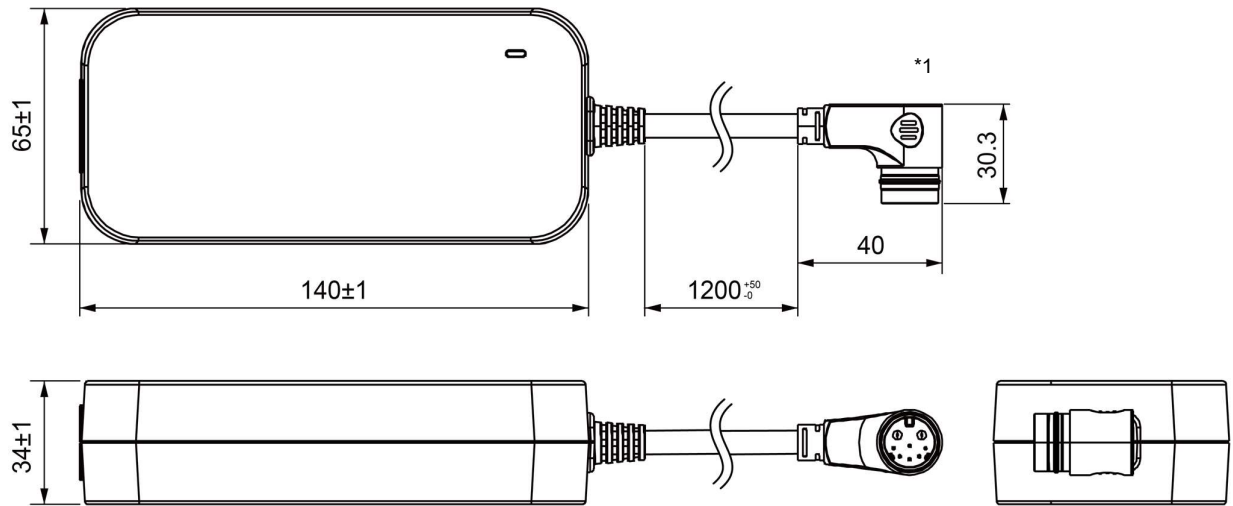
This manual is intended primarily for the trained technician to install, disassemble, or maintain the Hyena e-bike system only. Please read all the safety warnings and instructions carefully. Failure to follow the warnings and instructions may result in death or severe injuries. Save this manual for future reference.

Product Features

Product Description

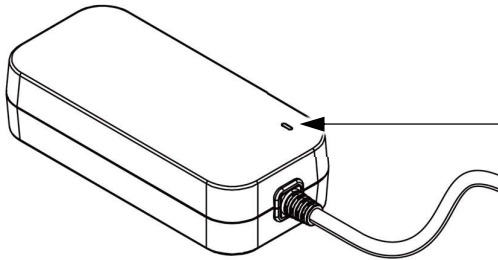
The CG-E32 Hyena E-Bike Battery Charger is designed exclusively for charging Hyena e-bike lithium-ion batteries, specifically compatible with battery models BP-B250+ and BE-B180. Please read the instructions and the warning labels on the charger carefully before using the battery charger.

Part Dimension



Unit: mm

Functional light instructions

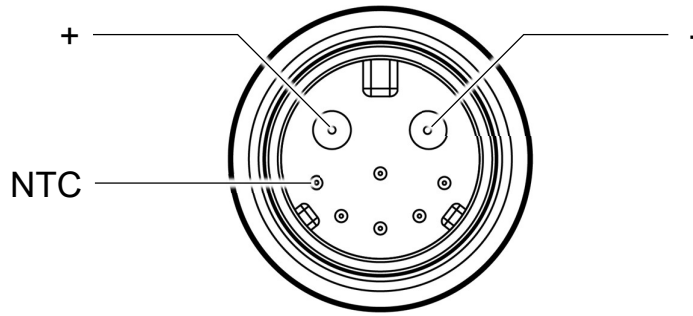


The functional light shows the charging status while using the charger to ensure safety.


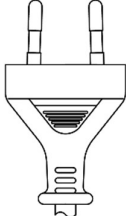
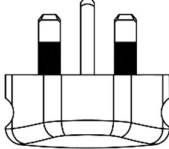
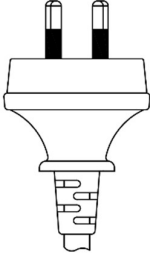


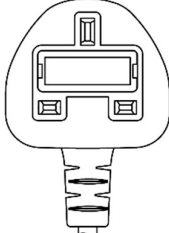

| Status | Indicator |
|--|------------------------------|
| Stand by | Green light stays on |
| Be charging | Red light stays on |
| Fully charged | Green light stays on |
| Over current/voltage/temperature protection | Red and green light flashing |
| Over timing protection (output cut off after 10±1 hours) | Red and green light flashing |
| Error | Red and green light flashing |

Cable Pin Definition

DC (To Battery)



AC (To Wall Socket)

| Area | US | EU | UK | AU |
|------|---|---|--|---|
| PN. | 4001H23001 | 4001H23002 | 4001H23003 | 4001H23004 |
| Type | Type B | Type F | Type G | Type I |
| Type |  |  |  |  |
| PIN |  |  |  |  |

Technical Data

| Function | |
|-----------------------|---------------|
| Input voltage range | 100 to 240Vac |
| Input frequency range | 50-60Hz |
| Rated output voltage | 41.8V ± 0.2V |
| Output current | 2.0A ± 0.2A |

| Characteristic | |
|-------------------------------------|---------------------------|
| Battery temperature identification | Yes |
| Battery over temperature protection | Yes |
| Operating temperature | -10°C to +40°C 5% - 95%RH |
| Storage temperature | -30°C to +70°C 5% - 95%RH |
| Short circuit protection | Yes |
| Over current protection | Yes |
| Anti-adverse current protection | Yes |
| Internal temperature protection | Yes |
| Timing protection | Yes |

| Parameter | |
|-----------------------------|---|
| Dimension | 165*74*48mm |
| Input cable connector (AC) | Type B, F, G, I Refer to Pin Definition |
| Input cable length | 1500±20mm |
| Output cable connector (DC) | BP-B250+ Refer to Pin Definition |
| Output cable length | 1200±50mm |

| Certification | |
|---------------|-------|
| CE | EU |
| GS/LVD | EU |
| EMC | EU |
| UL1310 | US |
| FCC | US |
| RoHS | EU/US |

NOTE: The certification of charger varies from different countries.

Operation

Operation Instructions

WARNING! Only charge the battery by following all safety descriptions. Also, please read and follow the instructions for using the battery charger:

- All Hyena chargers only use genuine Hyena batteries and battery packs, or battery packs approved for use with your e-bike by the manufacturer, and purchase only from reliable sources.
- Use of uncertified battery packs may result in death or severe injuries.
- Charging is restricted to certified Hyena lithium battery packs. The battery pack voltage must comply with the charger output voltage; otherwise, it might result in risks of explosions or fires.
- **CAUTION!** Charge the battery indoors to avoid exposure to rain or wind. Do NOT use outdoors or in environments with high humidity.
- **WARNING!** Be sure to hold the power plug steady instead of holding the cord when connecting or disconnecting from the electrical outlet. Failure to do so may cause a fire or electric shock.
- If the following symptoms are observed, stop using the device and contact the place of purchase. A fire or electric shock may be caused:
 - If heat or acrid-smelling smoke is coming out from the power plug.
 - There may be a bad connection inside the power plug.
- Do NOT place the battery charger on the floor or in other dusty places when using it.
- Place the battery charger on a stable surface, such as a table, when using it.
- Do NOT place any objects on top of the battery charger or its cable. Do NOT place a cover on it either.
- Do NOT apply excessive tension to the cables and charging plugs.
- Do NOT touch the metallic parts of the device or the power plug on the AC adapter or other parts when the charger is wet, electric shocks may occur.
- Use only a 100-240 V AC electrical outlet, do NOT overload the electrical outlet with appliances beyond its rated capacity.
- If the electrical outlet is overloaded by connecting too many appliances using adapters, overheating resulting in fire may occur.
- Do NOT damage the power cord or power plug. (Do NOT damage, process, forcibly bend, twist, or pull them, bring them near hot objects, place heavy objects on them or bundle them tightly together.) If they are used while damaged, fire, electric shocks, or short circuits may occur.
- Do NOT use the battery charger with commercially-available electrical transformers designed for overseas use (travel converters). They may damage the battery charger.
- When charging the battery while it is installed on the

bicycle, do not move the bike. The battery charger's power plug may come loose and not be fully inserted into the electrical outlet, resulting in a fire risk.

- When charging the battery while it is mounted on the bicycle, be careful not to trip over the charger cord. This may lead to injury or cause the bike to fall over, damaging the components.
- **CAUTION!** According to ECP, when the battery is in over-charged/over-discharged conditions, the battery will automatically disconnect the circuit for safety protection.

Charging Instructions

General Charging Instructions

- Check your battery pack before using it for the first time. First, you must turn on the battery pack; if the charging LED does not light up, it means that this battery pack might be damaged.
- Make sure to charge the battery pack fully before using it for the first time.
- Do NOT try to use or charge damaged battery packs.
- When charging, do NOT place items 50 cm (19.69 inches) around the battery. Make sure the battery and the charger are on a fireproof surface.
- Do NOT leave batteries in the charger for more than 24 hours. Contact your local bicycle dealer for assistance if the charging cannot complete in 24 hours. The battery pack can be charged under any power mode; interrupting the charging process will not damage the battery pack.
- **CAUTION!** The battery packs are partially charged before they are shipped. Therefore, to ensure the battery has full and sufficient power, please charge your battery pack fully before using it for the first time.

Charging Instructions

- Plug the charger's plug into an outlet (100-240V), using the appropriate plug for the country's standards.
- Uncover the charging socket on the battery, then connect the charging plug to the charging socket on the battery.
- When charging is complete, disconnect the charging plug from the battery socket.
- Unplug the charger from the wall socket.
- Make sure to close the charging port cap after charging. If foreign matter, such as dirt or dust, adheres to the charging port, there is a risk that the charging plug will not fit into the charging port.
- The type of socket for charge connectors might be different on the different types of batteries. Please refer to the battery instructions.
- If the battery has become empty, charge it as soon as possible. If the battery is left uncharged, it may cause the battery to deteriorate and become unusable.
- **CAUTION!** When possible, you should charge the battery in an area with a smoke detector or ensure someone is taking care of the battery during the charging process.

- **CAUTION!** Do NOT place the battery charger at locations that are easily accessible to children.

Charge the Battery Pack Before and After Storage

- When you do not use the battery pack of the e-bike for extended periods, charging the battery to 30-60% will be the optimum storage condition.
- Confirm the charge status again after six months; if the remaining power of the battery pack is less than 30%, charge it again to between 30-60%.
- **CAUTION!** If you store the battery pack under the condition of lacking power, it may be damaged, and its power storage capacity will also be affected significantly.

Safety Instructions

Instructions Pertaining To A Risk Of Fire, Electric Shock, Or Injury To Persons

WARNING! When using the **CG-E32 Charger**, basic precautions should always be followed, including the following:

- Read all the instructions before using the product.
- Close supervision is necessary to reduce the risk of injury when using the product near children.
- Do NOT put fingers or hands into the product.
- Do NOT use this product if the flexible power cord or output cable is frayed, has broken insulation, or any other signs of damage.
- All the component leads shall use original Hyena components.
- This product is not intended to be used at ambient temperatures above 40°C (104°F) or used at ambient temperatures less than -10°C (14°F).
- Do NOT immerse the product or any e-system component in water.
- Do NOT place the product or any e-system component near fire or heat.
- Always turn off the e-bike system and remove the battery before installing, disassembling, or modifying any components on the e-bike.

Important Notice

- This product manual is intended primarily for the trained technician to install, disassemble or maintain the e-bike.
- Users who are not professionally trained for bicycle assembly should not attempt to install, disassemble or modify the components themselves.
- All Hyena e-system manuals and technical documents are accessible online at "www.hyena-ebike.com".
- The term "battery" is used in these instructions to mean all original Hyena e-bike batteries.
- Read and observe the safety warnings and directions contained in all the Hyena e-bike system operating instructions and in the operating instructions of your e-bike.

Grounding Instructions

- The whole charging behavior must be kept grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded under all local code ordinances.
- **WARNING!** Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the product is properly grounded. Do NOT modify the plug provided with the product - if it will not fit

the outlet, have a proper outlet installed by a qualified electrician.

Moving and Storage Instructions

- Please keep the product and all e-system components in their original package and keep tools or other metal objects away from them during storage and moving.
- If you did not keep the original packaging, they can be packed in solid cartons with proper packing materials such as bubble wrap or soft cloth, and label the cartons "Fragile."
- Do NOT bundle the charger cables.
- Do NOT hold the battery charger by the cables when carrying it.
- In order to prevent the cable from being damaged, avoid wrapping it around the main body during storage.
- Do NOT store the product at ambient temperatures less than -30°C (-22°F) or above ambient temperatures of 70°C (158°F).
- Cover the product to prevent sunlight damage if you keep it stored at any place for more than a week.
- Store the product on a fireproof surface and without contact with water, heat, or sand.
- Do NOT place any heavy item on the product or any e-system component.
- Do NOT place the product or any e-system component in the car trunk for more than one day.
- Do NOT load or move the product in the rain whenever possible, and make sure it has no moisture or mildew before loading it.
- Do NOT drop the product from more than 30cm (11.81 inches) in height.
- Periodically check the battery charger and adapter, particularly the cord, plug, and case, for any damage. Please don't use the broken charger/adapter until it has been repaired/replaced by the place of purchase or a distributor.

Maintenance

- When cleaning your e-bike, disconnect the power plug from the electrical outlet and the charging plug from the battery. If this is not observed, an electric shock may occur.
- Do NOT clean the product or any e-system component with any detergent or organic solvent. Only clean the product with a water-dampened soft cloth.
- Do NOT clean the product or any e-system component with pressured water.

Product Warning Label

- On the product warning label at the bottom of the charger, you can find simple descriptions of safety warnings in different languages; the content will include the following items.
- Complete usage instructions; please refer to the manual.
- Risk of electric shocks.
- Only use indoors.
- It can only charge batteries dedicated to Hyena transmission systems; using it to charge other batteries may result in physical injuries.
- Do NOT change the plug, as doing so may result in fire or power leakage.

Disposal

- In accordance with Directive 2012/19/EU, electronic devices that are no longer usable and defective/drained batteries must be collected separately and recycled in an environmentally friendly manner.



This symbol is only valid within the European Union. Follow local regulations when disposing of used batteries. If you are not sure, consult the place of purchase or a bicycle dealer

- The e-system drive unit including the motor, controller, battery, speed sensor, HMI, accessories, and packaging should be disposed of in an environmentally correct manner.
- Do NOT dispose of e-bikes and their components with household waste.

SAVE THESE INSTRUCTIONS

TUE Li-ion Battery Charger
鋰電池充電器

- RED LIGHT = Charging Battery
紅燈亮：充電狀態・赤ランプ点灯：充電中
- GREEN LIGHT = Battery Fully Charged
綠燈亮：充電結束・綠ランプ点灯：充電完了 / 待機
- RED / GREEN BLINKING = Fault mode
紅綠燈閃爍：異常狀態・赤 / 綠ランプ点滅：バッテリー異常

MODEL 型號/型番：T090SC-4202000G
INPUT PRI/輸入入力：AC 100-240V, 50/60Hz, 2.5A Max
OUTPUT SEC/輸出出力：42.0V == 2.0A

YYWWD0000

CE UK CA

Manufacturer : Top-unum Electronics Co., Ltd. **MADE IN CAMBODIA**

CAUTION
Risk of Electric Shock. Risk of Fire.
Dry location use only. See instruction manual before use.

WARNING
USE ONLY RECHARGEABLE BATTERIES. OTHER TYPES MAY EXPLODE.
AVERTISSEMENT
UTILISER UNIQUEMENT DES PILES RECHARGEABLES. LES PILES
NON-RECHARGEABLE RISQUENT D'EXPLOSER.

T4.0A
BFP
FC
UL LISTED R3A954
E489827
RoHS
Class 2 Battery Charger

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