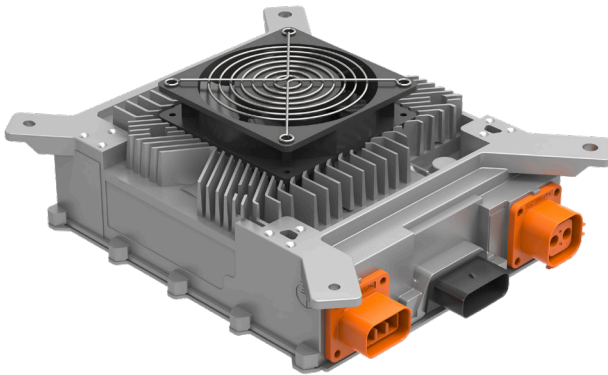


G Battery Charger 32A

User Manual



Model: HK-LF-115-58

2024.12 Version 1.2

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Acknowledgement

Thanks for choosing ePropulsion products, your trust and support in our company are sincerely appreciated. We are dedicated to providing high-performance electric outboards, electric inboards, sup/kayak motors, reliable lithium batteries and accessories.

Welcome to visit www.epropulsion.com and contact us if you have any concerns.

Using This Manual

Before use of the product, please read this user manual thoroughly to understand the correct and safe operations. By using this product, you hereby agree that you have fully read and understood all contents of this manual. ePropulsion accepts no liability for any damage or injury caused by operations that contradict this manual.

Due to ongoing optimization of our products, ePropulsion reserves the rights of constantly adjusting the contents described in the manual. ePropulsion also reserves the intellectual property rights and industrial property rights including copyrights, patents, logos and designs, etc.

This manual is subject to update without prior notice, please visit our website www.ePropulsion.com for the latest version. If you find any discrepancy between your products and this manual, or should you have any doubts concerning the product or the manual, please visit www.ePropulsion.com.

ePropulsion reserves the rights of final interpretation of this manual.

This manual is multilingual, in case of any discrepancy in the interpretation of different language versions, the English version shall prevail.

Symbols

ePropulsion considers safety of great importance and recommends that anyone that comes into close contact with its products, such as those who install, operate, maintain or service ePropulsion products, exercise care, common sense and comply with the safety information in this manual and on the machine's safety decals.

The following are the relevant information marks in the user manual or the product labels:

Hazardous or warning signs indicate a potentially hazardous or hazardous situation which, if not avoided, will result in death or serious injury. Special attention and attention should be paid to the safety of you or the products involved.



Important warning:

Tips or important informations help quickly grasp the use of the inboard motor and improve efficiency.

Please read and follow the instructions following the safety warning signs.



Caution:

When installing, operating, maintaining or serving ePropulsion products, there are many safety risks in the process. You need to be alert, perform relevant operations reasonably, and pay attention to safety. when installing, operating, maintaining or serving ePropulsion products, there are many safety risks in the process. You need to be alert, perform relevant operations reasonably, and pay attention to safety.



Electric shock hazard:

The areas or equipment may be at risk of electric shock. The equipment uses 230V AC power. When operating electricity-related electrical connectors, switches, cables and other electricity-related items, power off operation to prevent electric shock.



Burn hazard:

Some of the machine surfaces become very hot during operation and shortly after shutdown. Keep hands and other body parts away from hot machine surfaces.



Do not plug or unplug when the machine is running:

Do not plug or unplug electrical equipment when the machine is running to avoid the risk of electric shock.

Product Identification ---

Below picture indicates the serial numbers of the HK-LF-115-58 charger. Please note the position of the serial numbers and record them for access to warranty service and other after-sale services.

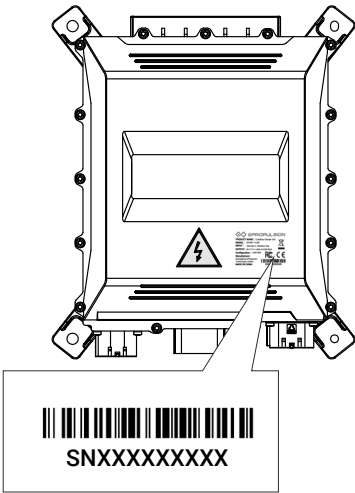


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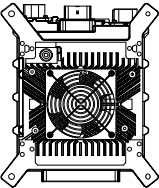



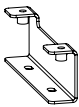
1 Introduction

Thank you for purchasing ePropulsion G Battery Charger 32A.

The G Battery Charger 32A is a product designed for the G-Series Battery.

1.1 In the Package

When you receive the Charger, unpack its package and check if all the items below are included in the package. If there is any loss or transport damage, please contact your dealer immediately.

Items	Qty.	Figure	Function
G Battery Charger 32A	1		For charging G series batteries
G Battery Charger 32A Power Cable	1		Used to connect the charger with an external AC power supply,2M
G Battery Charger 32A Output Cable	1		Connection for charger output circuit,2M
G Battery Charger 32A Communication Cable	1		Communication connection between charger and battery,3M
G Battery Charger 32A Mounting Plate	2		Used to support the charger, use attached bolts fixed under the Charger , torque shall be 7.7 N.m
Combination Screws M6x20	4	/	/

1.2 Main features



Full potting process, can work reliably at -40°C~ 55°C.



Built-in temperature sensor to turn off output under overheating operating conditions (internal 90°C).

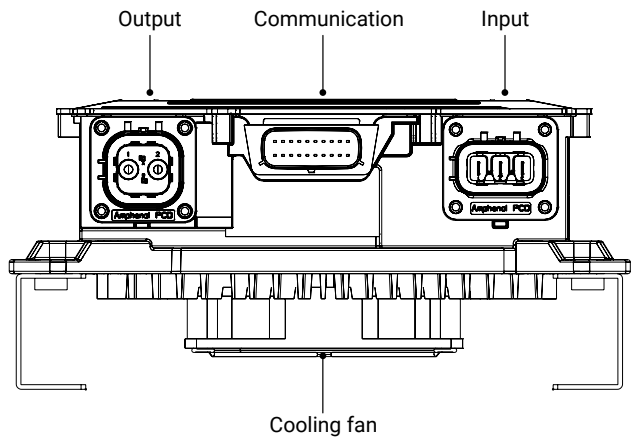


Ingress Protection class IP67.

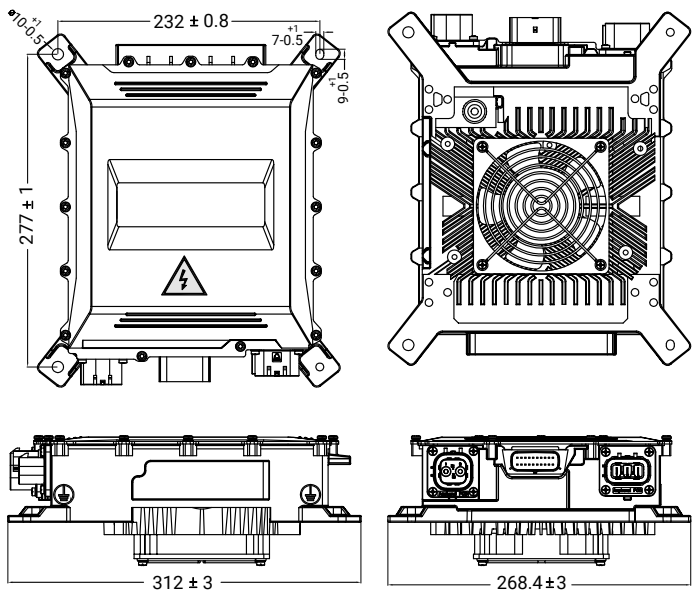
1.3 Specifications

Product Name		
6.6KW On-board Charger		
Model		
HK-LF-115-58		
Product Description		
G Battery Charger 32A		
Environmental		
Operation temperature	-40℃ to 55℃	
Storage temperature	-40℃ to 105℃	
Altitude	≤5000m	
Protection grade	IP67	
Certification	CE、FCC、RoHS	
Input		
Input voltage range	100 - 240 Vac	
Frequency	50 - 60Hz	
Maximum Input current	32A	
Output		
Rated voltage	115 Vdc	
Charging Voltage Range	45 - 177 Vdc	
Maximum CC Charging Current	58A @220Vac	30A @110Vac
Protection		
Overcurrent protection, Overtemperature protection Undervoltage protection, Short circuit protection		
Dimension		
Weight	9kg	
Dimensions	233*262*100 mm	

2 Interface description



2.1 Dimensions



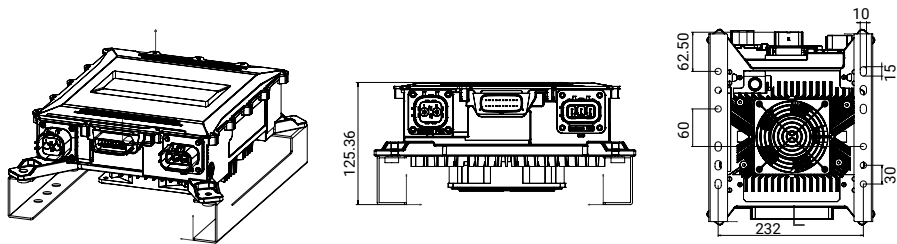
Default unit : mm

3 Mechanical installation

The charger is equipped with Mounting Plate and Screws.

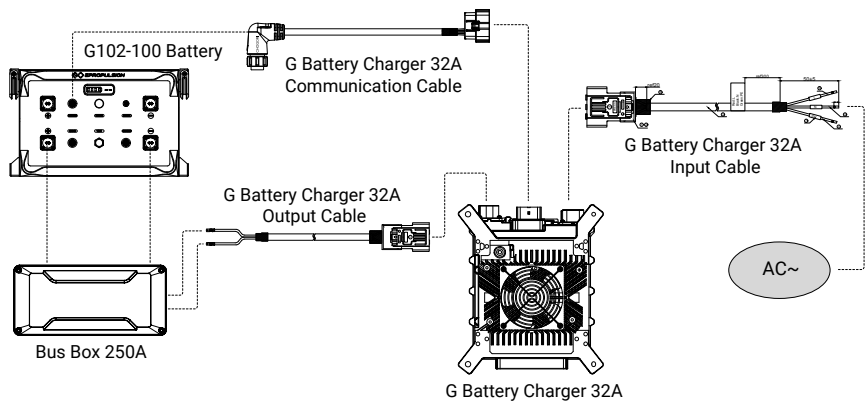
After using the mounting bracket:

- 1. Do not install the charger near a heat source.
- 2. Do not place objects within 2 cm around the charger to block it.



3.1 Operations

- Please follow the wiring diagram below to perform wiring operations without AC power on.
- If there are more complex parallel operating conditions, please contact ePropulsion Technology's authorized dealers.
- After each AC power-off, wait for 2 minutes before AC power-on to allow the charger to work.



3.2 Precautions for charging

1. This charger is specially designed to charge the G series batteries of ePropulsion Company, please do not use it for other purposes.
2. When charging the battery, connect the positive electrode of the charger power cord and the positive electrode interface of the battery through the bus box, connect the negative electrode of the charger power cord and the negative electrode interface of the battery through the bus box, and connect the communication line of the charger to the battery CHARGE interface to ensure that The connection is locked and there is no risk of slipping.
3. Connect the charger to the AC power supply, the system has no charging alarm fault, and the battery power display lamp cycles from less to more, indicating that the battery is charged successfully.
4. After charging is completed, the battery will request the charger to stop charging. At this time, please disconnect the AC power supply to complete the charging.

4 Warranty

Guangdong ePropulsion Technology Co., Ltd. ("ePropulsion"), China, warrants its products to be free of defects in material and workmanship under normal usage with proper installation and routine maintenance for a period of twenty-four (24) months from date of delivery of products to end customers (the "Limited Warranty Period"). The Limited Warranty is provided to the first end customer of ePropulsion products ONLY. The Customer is entitled to free repair or replacement of defective or non-conform parts. Any warranty claim must be made within six (6) months of discovery of issues as provided below.

If the Limited Warranty Period expires, you can still enjoy maintenance services from dealers/distributors authorized by ePropulsion (the "ePropulsion Service Partners") with minimum maintenance charge per occurrence.

In all warranty cases, ePropulsion will only bear the repair cost and other costs (such as those related to product installation, disassemble, transportation, financing, rental, etc.) as a direct result of issues covered by the Limited Warranty only. Any costs irrelevant to or out of the scope of the Limited Warranty will be born by the Customer alone.

Beyond the Limited Warranty, the Customer may have statutory rights in your jurisdiction according to applicable laws. Nothing in this Limited Warranty affects such rights. The Customer may have warranty claim rights arising from the purchase contract with ePropulsion Service Partners in addition to the rights granted by this Limited Warranty.

Products for commercial/professional use, even if only temporarily, are not covered by the Limited Warranty. Instead, the statutory warranty in your jurisdiction shall apply. You are encouraged to consult with ePropulsion Service Partners for applicable warranty and advice before engaging in such use.

***Commercial/professional Use refers to application cases that have high use frequency, high-reliability requirement or aim for money making, etc.**

To keep your warranty valid, you shall follow:



Keep the product label intact and record the Serial Number shown on the label. Never tear the label off the product. A product without the original product label is not covered by the Limited Warranty provided by ePropulsion;



The Limited Warranty is not transferable and will not be reissued;



The Limited Warranty may change from time to time. Pls visit our website (<http://www.epropulsion.com>) for the latest version.

4.1 Out of Warranty

ePropulsion may refuse a warranty claim if:

- Any improper operation contradicts what is written in the user manual;
- Accident, misuse, dropping, improper care or storage, willful abuse, physical damage, overcharging, over discharging, or unauthorized repair;
- Water ingress caused by external sources such as fishing nets, submerging underwater, etc;
- Product modification, alternation, disassembly, or parts/accessories attachment, which are not expressly permitted or recommended by ePropulsion;
- Failure of, or damage caused by, any 3rd party products;
- Consumables are out of warranty scope (like propeller, anode...etc.);
- Purchases of product from unauthorized dealers or seller;
- Normal wear and tear and routine servicing are excluded from the warranty;
- The product gets further damaged due to improper packing during delivery. The further damaged part will be deemed as out of warranty coverage;
- Lithium battery is classified as a UN9 hazardous item, posting and packing must be in accordance with the relevant law of the local country directive. Non-compliance may result in out of warranty coverage.

4.2 Limited Warranty Claim Procedures

The Customer shall follow the warranty claim process to make a Limited Warranty claim:

1. Contact your nearest ePropulsion Service Partners and they will provide further instruction to you if such defects are covered by the Limited Warranty or theirs.
2. Send the defective product to them together with Proof of 1(st)-time Purchase (e.g., receipt, invoice, etc., with information of product purchased and date of purchase), the Confirmation of Online Warranty Registration, ex-factory Serial Number, etc. Note that all labels shall be kept intact. The warranty is valid only when the information above is correct, genuine, and complete;
3. Make sure the product is properly packed during delivery, the original package is highly recommended.
4. The ePropulsion Service Partners will conduct diagnosis and examination on the defective

products to check the validity of the warranty claim.

5. If your warranty claim is accepted, the Product or its defective components/parts will be either repaired or replaced free of charge. Note that any delivery cost incurred in the process shall be bearded by you.
6. In case your warranty claim be rejected, a repair/replace cost and fee with round trip delivery cost will be estimated and sent to you for confirmation. ePropulsion Service Partners will only begin the work after your written confirmation.

ePropulsion

(*In order to validate warranty, please fill in this form first and read the Warranty Policies.)

|| OWNER INFO. ||

Owner Name			
Address			
Phone		Email	

|| DEALER INFO. ||

Store Name			
Address			
Phone		Email	

|| PRODUCT INFO. ||

Date of Purchase (mm/dd/yyyy)	
Serial No.	



Thanks for reading this user manual.

If you have any concerns or find any problems while reading, please don't hesitate to contact us. We are delighted to offer service for you.

Guangdong ePropulsion Technology Limited

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