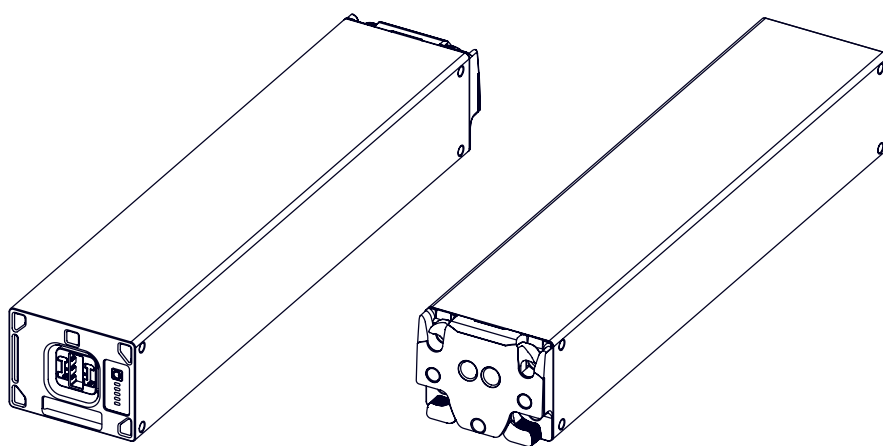


Battery InTube 650 | 800

Operating Manual | V1.1

QGRE



**IMPORTANT SAFETY INSTRUCTIONS
KEEP THESE INSTRUCTIONS**

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1 About this operating manual

This operating manual contains the necessary information for the intended use and safe operation of the Yamaha InTube battery (hereinafter referred to simply as the “product”) for the “QORE System” drive system. The information provided in this manual is primarily intended for operators using the EPAC including battery.

Before completing any work relating to the product:

- Make sure that you have read and understood this operating manual in full, paying particular attention to the safety and warning notices.
- Keep this operating manual in a safe place for future reference.

- Follow the instructions in this operating manual at all times when using and handling the product.

If you have any queries, questions or problems with the product that cannot be resolved by this operating manual, do not attempt to carry out any work yourself and contact Yamaha or your dealer.

Manufacturer	Yamaha Motor eBike Systems GmbH
Address	Sickingenstraße 29-38 10553 Berlin
Phone	+49 30 343498 100
Email	service.ebike@ yamaha-ebike-systems.com

1.1 Design of safety and warning notices

This operating manual contains safety-related instructions to warn the user of residual risks.

The safety instructions in this operating manual are detailed in section „*IMPORTANT SAFETY INFORMATION*“. To warn of specific hazards in the context of an activity or life cycle phase, warnings are used in the text. These warnings are identified by a warning symbol in conjunction with a signal word. The signal words indicate the degree of the hazard.

The following warnings are used in this operating manual.

DANGER

DANGER indicates an immediate hazard which, if the safety measures are not followed, will result in fatal or serious injury.

WARNING

WARNING indicates a potential hazard which, if the safety measures are not followed, can result in fatal or serious injury.



CAUTION

CAUTION indicates a potential hazard which, if the safety measures are not followed, can result in minor or non-serious injury.

NOTICE

NOTICE indicates a potential hazard which, if the safety measures are not followed, can result in property or damage to the environment.

1.2 Format conventions

This operating manual uses additional forms of presentation for certain information.

Highlighting in texts

Bold

Highlights information which is particularly important when describing procedures.

Italicized

Highlights references to information in this operating manual.

Italicized underlined

Highlights references to information in other documents.

Figures

The figures contained in this operating manual are schematic representations and serve only to graphically clarify the product and the respective processes. The figures may deviate from the actual state of the product upon delivery.

Lists

Instructions are presented as numbered lists and must be carried out in the specified order.

1. Activity step 1
 2. Activity step 2
- ✓ Outcome

Bulleted lists are displayed as unnumbered lists.

- Bullet point 1
- Bullet point 2
- Sub-point 1
- Sub-point 2

1.3 Terms and abbreviations

Term	Meaning
EPAC	Electrically Power Assisted Cycle

1.4 Symbols and notices

Symbols



This symbol indicates that personal protective equipment must be worn for the subsequent activity.



This symbol indicates components that are included in the scope of delivery.



This symbol indicates components that are not included in the scope of delivery but are required.



This symbol indicates tools and equipment required for the subsequent activity.

Mandatory signs



Read the instructions in full before working on the product and follow the instructions provided.



Wear safety gloves.



Wear safety boots.



Wear safety goggles.

1.5 Applicable documents

To use the product as intended, it is necessary to observe all the accompanying information provided.

This includes this operating manual, the operating manual of the manufacturer of the EPAC, and the accompanying information for the additional components of the QORE System.

This includes, in particular:

- The instructions for the battery
- Operating manuals for the battery holder and charger
- Operating manuals for HMI Integrate & Remote and HMI Allround
- Operating manual for the speed sensor

2 IMPORTANT SAFETY INFORMATION

The following safety information describes potential hazards and residual risks that may arise when using the product. To avoid personal injury and damage to property, it is necessary to read and follow the instructions provided here before using the product. It is also necessary to comply with all the applicable national regulations for the operation of EPACs as well as all the applicable national and international regulations on safety, health, and occupational safety.

- **WARNING!** When using this product, basic precautions should always be taken, including the following:
 - Read all instructions concerning the use of the product.
 - To reduce the risk of injury, close supervision is required when the product is used near children.
 - Do not insert fingers or other extremities into the product.
 - Do not use the product if the power cord or any other current-carrying wires or cables are damaged.
 - The product and its accessories are designed for use within specified ambient conditions / temperatures (see section 5 “*Technical data*”).
 - Do not charge the battery if the ambient temperature is outside the permissible ambient conditions.

ELECTRICAL HAZARDS

- Unsuitable chargers and connecting cables can cause damage to the battery. Only use the original Yamaha charger to charge the battery. The EPAC must not be used during the charging process.
- Before charging, check that the available mains voltage matches with the input voltage of the charger.
- Remove the battery before any work on the EPAC and prior to transport or storage.
- A short circuit can occur if the battery terminals come into contact with metallic objects. Never short-circuit the battery. Keep metal objects away from the battery. Never store the battery together with metal objects (e.g., in a drawer).
- Do not treat the battery terminals with lubricants, switch cleaner or similar substances.
- Do not expose the battery to rain.
- When using additional power consumers (e.g., heated grips), the EPAC manufacturer is responsible for the correct design and protection of the wiring. The total current usage of the drive unit and other components must be taken into account.

HAZARDS DUE TO HEAT, FIRE AND EXPLOSION

- Improper handling can cause the battery to explode. Never use the battery for any purposes other than those specified here.
- Check the battery for damage before each use. Do not use or charge damaged batteries.
- Never open, disassemble, puncture, or otherwise modify the battery.
- Ensure that the battery is inspected by an authorized Yamaha dealer after an impact or it is dropped.
- Keep the battery away from naked flames, heat (e.g., direct sunlight) and liquids.
- In the case of a fire or explosion, do not attempt to extinguish the battery yourself. Remove yourself from the vicinity of the battery and call the fire department as soon as possible.
- The battery can become hot during charging and pose a risk of causing burning or igniting other materials. Allow the battery to cool before handling it and keep it away from flammable materials.
- Only charge the battery in a dry, fireproof location and do not leave it unattended during the charging process. Do not cover the battery during the charging process.
- Lithium batteries are hazardous goods and subject to the hazardous goods regulations in accordance with UN 3480 during transport.

Hazards posed by corrosive substances

- If the battery is damaged, corrosive battery acid or toxic gases may escape. Ensure that the battery is inspected by an authorized Yamaha dealer if you suspect that it is damaged.
- Protect the battery against impact, mechanical influences and other stresses.
- Always wear personal protective equipment (safety goggles, protective clothing) when handling damaged batteries.
- If you come into contact with leaked battery acid, rinse the affected area immediately with plenty of tap water. Next, consult a doctor immediately, especially if the acid has come into contact with your eyes and/or mucous membranes (e.g., nasal mucosa).
- Should toxic gases escape, ensure a sufficient supply of fresh air. Consult a doctor immediately if you suspect that you have inhaled toxic gases.

Hazards during cleaning

- Use a soft cloth and a little water or a neutral cleaning agent to clean the battery housing.
- Never clean the battery with a high-pressure cleaner or a steam cleaner.
- Do not use cleaning agents such as gasoline, alcohol, or similar.
- Do not use any harsh cleaning agents. These can cause the paint to peel, discoloration or similar defects.

2.1 Labels on the product

This product has labels that provide further information and warn users of the hazards associated with its use. These labels must remain legible throughout the lifespan of the product and must be replaced

immediately if they are damaged. For information on the labels of the additional components of the QORE System, refer to the separate accompanying information.



Fig. 1 Labels on the battery

(1) Type plate with CE labelling
(for example, InTube 800)

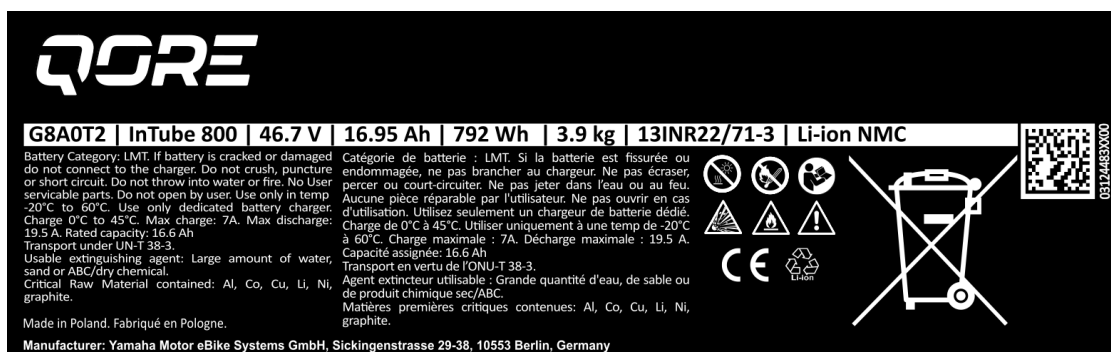


Fig. 2 Type plate on the InTube800

Symbols

The following symbols are provided on the type plate:



This symbol indicates that the product must not be exposed to direct sources of heat.



This symbol indicates that no fire or naked flame should occur in the vicinity of the product.



This symbol indicates that the operating instructions must be read before handling the product.



This symbol indicates a risk of explosion.



This symbol indicates a risk of fire.



This symbol indicates general hazards associated with the use of the product.

3 Intended use

The Battery InTube 650 / 800 (hereinafter referred to simply as the product) has been designed to supply power to the QORE System, and is integrated into the EPAC via the battery holder which is permanently mounted to the frame.

- The product is only intended for use with the QORE System.
- Any other use is considered to be improper.

Foreseeable misuse

The installation of the product into components, parameters or equipment other than those specified by Yamaha is considered misuse. Furthermore, the following are considered misuse:

- The unauthorized modification or alteration of the product and its integrated safety features without the written approval of Yamaha.
- The bypassing or disabling of safety- and protective equipment.
- The use of accessory components not approved by Yamaha for use with the product.

4 Structure and function

The Battery InTube 650 / 800 ensures the supply of power to the QORE System and is integrated into the EPAC via the battery holder which is permanently mounted to the frame.

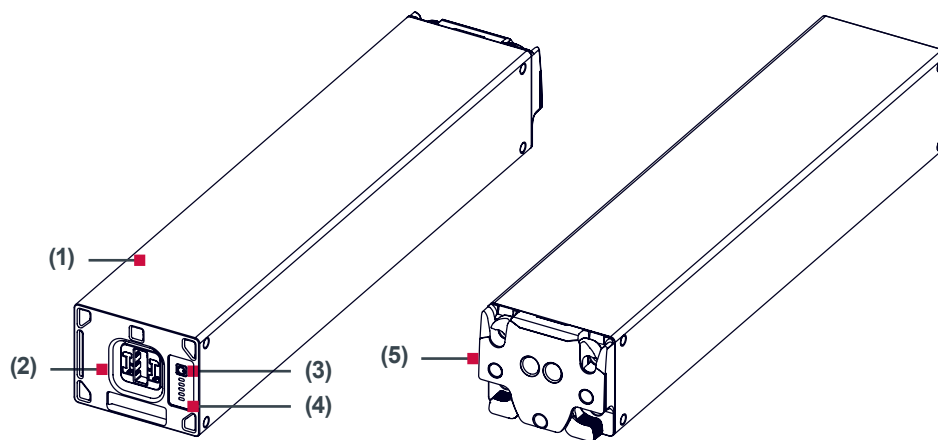


Fig. 3 Overview of battery

- (1) Battery housing
- (2) Charging and discharging plug
- (3) Charging status button
- (4) Charge level display
- (5) Unlocking system

5 Technical data

Battery specifications	Description	Battery specifications	Description
Weight	InTube 650: 3.7 kg InTube 800: 3.9 kg	Internal resistance	depends on the charge level Battery 650: 132 mOhm Battery 800: 115 mOhm (Delivery condition, <i>for further information, see the table on Internal Resistance and Loss of Capacity</i>)
Dimensions	388.5 x 83.3 x 65.3 mm (preliminary values without tolerances)	Charging cycles	700 full cycles with 80% residual capacity (Reference conditions: 20-100% charge level, 0.5C charging, 0.5C discharging, 23°C. Remaining capacity: at least 80% of initial capacity)
Compatibility	QORE System	Expected lifespan	at least 5 years
IP protection class	IP66	Connections	proprietary
Housing material	Aluminum (plastic cover)	Communication	CAN Bus
Configuration	13S3P	Safety	Charging process with ASIL B
Energy	InTube 650: 649 Wh InTube 800: 792 Wh	Certification	UN 38.3 / IEC 62133 / EN 15194 / ISO 13849 / UL 2271 / EN 50604 In compliance with the Battery Regulation
Capacity (nominal)	InTube 650: 13.5 Ah InTube 800: 17.1 Ah	Permissible ambient conditions for charging	0°C to +40°C
Capacity (minimal)	InTube 650: 13.05 Ah InTube 800: 16.7 Ah		
Output	1092 W		
Nominal voltage	InTube 650: 48.1 V InTube 800: 46.7 V		
Maximum charging current	6.5 A		
Continuous discharge	20 A		
Power loss	0% every 200 cycles		

Battery specifications

Permissible ambient conditions for discharging

0°C to +40°C

Permissible ambient conditions for storage

0°C to +40°C

Ideal for preventing aging: 10°C to 25°C.

Battery specifications

Warranty

2 years

Internal resistance and capacity

Cycle no.	InTube 650		InTube 800	
	Increase in internal resistance	Loss of capacity	Increase in internal resistance	Loss of capacity
1 (delivery state)	0.0%	0.0%	0.0%	0.0%
100	19.7%	5.2%	8.7%	7.7%
200	23.9%	8.2%	11.6%	11.7%
300	28.5%	9.8%	13.9%	12.9%
400	33.4%	11.1%	16.3%	13.9%
500	36.8%	12.2%	17.9%	14.6%
600	40.0%	13.2%	19.5%	15.2%
700	44.7%	14.3%	21.8%	15.6%

6 TRANSPORT AND STORAGE

The transport and storage of the product take place according to the requirements in the instructions for the battery.



WARNING

Hazard posed by hazardous materials

The improper transport of hazardous materials can lead to a risk of fire and explosion.

- Please observe the instructions in the annex to this operating manual and the safety data sheets.



CAUTION

Bruises and contusions caused by falling components

If the product falls on extremities, bruises and contusions may result.

- Handle the product with care at all times.
- Wear personal protective equipment.

NOTICE

Damage to the product due to improper transport

Failure to follow the instructions on the packaging may result in damage to the product.

- Observe the packaging labelling when handling the package.
- If you are unsure, do not carry out any work and contact the Yamaha customer service team or your dealer.

Symbols on the packaging

The packaging may feature symbols indicating special transport or storage conditions and warning the user of hazards when handling the package.

Symbol	Meaning
	Protect the package against the rain and moisture.
	Do not exceed the specified stacking limits.
	Transport with this side facing upwards.
	Protect the package against direct sunlight.

Delivery

Upon delivery, the packages are packed according to requirements. Upon delivery, check for the following:

- Completeness of the packages
- Damage to the packaging and the components inside
- Completeness and accuracy of the shipping documents

If any defects are discovered to the packages or shipping documents during inspection, report them to Yamaha and the responsible forwarding company immediately and document them on the transport documents.

Transport

Refer to the instructions for the battery for further information.

Storage

Remove the product in accordance with the instructions in this operating manual and store it in a dry, frost-free and dust-free location. Avoid exposure to direct sunlight.

The optimum charge level for extended periods of non-use is 50%. Check the charge level on a regular basis.

Refer to the respective accompanying information for storage instructions on additional QORE System components.

7 ASSEMBLY



WARNING

Risk of electric shock

Working on live components poses a risk of electric shock.

- Ensure the power supply is disconnected during all assembly steps.
 - Only insert the battery after the assembly is complete.
 - Ensure that cables and connections are not damaged during the assembly.
-



CAUTION

Risk of crushing and pinching

During assembly, extremities can be caught or crushed between the frame components and the product.

- Wear the prescribed personal protective equipment.
 - Observe the correct assembly position and sequence.
 - Secure the product against falling.
-

7.1 Assembly of the battery



- InTube 650 (G8K7J5) or Battery InTube 800 (G8B371)
- 4x fastening screws (M4 x 8)



- TORX 20
- Threadlocker (e.g. LOCTITE® 243)

Requirements

- The battery holder is mounted.
- The lock holder is assembled.

Assembly of the end cap

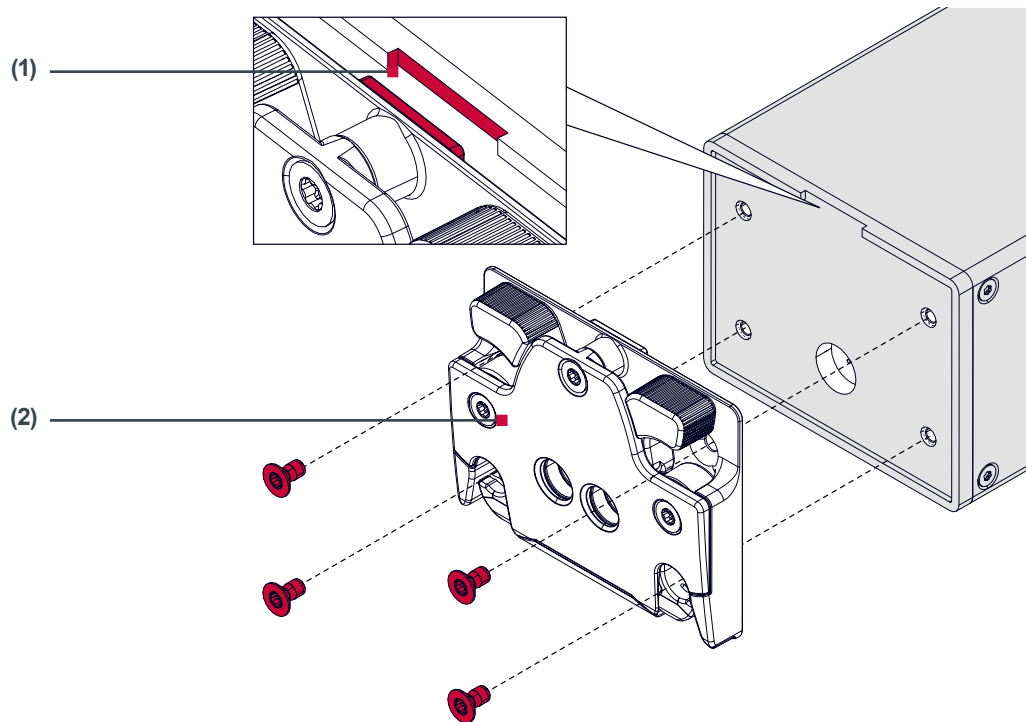
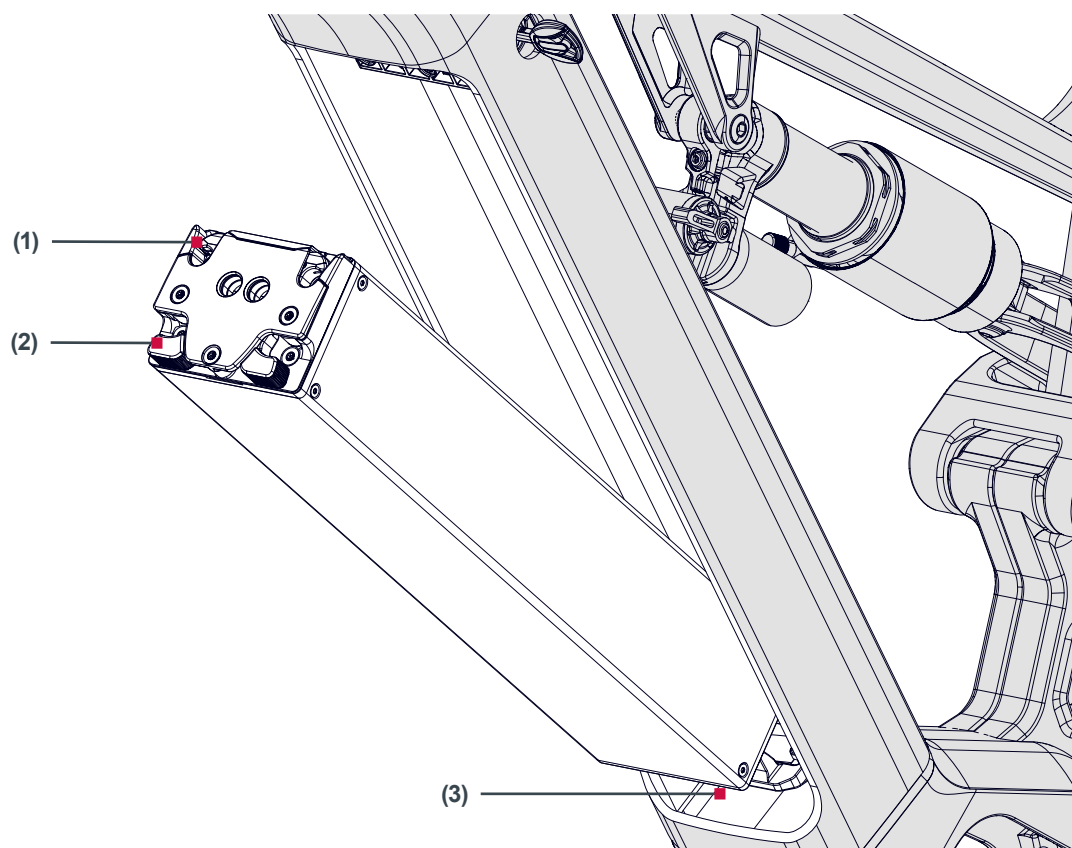


Fig. 4 Install the end cap

1. Align the end cap (2) with the recess of the battery (1) and place it on the battery.
2. Apply the Threadlocker (e.g. LOCTITE®) to the fastening screws according to the manufacturer's guidelines. Alternatively, use microencapsulated screws manufactured to specification.
3. Insert the fastening screws (3) and tighten with a tightening torque of **1.2 Nm**.

Assembly in the frame**Fig. 5** Insert the battery

1. Open the lock using the key.
 2. Align the underside of the battery with the connector bracket in the frame (3) and insert the battery.
 3. Push the top end of the battery into the frame until you hear the locking mechanism (1) click into place.
 4. Manually close the lever mechanism (2) completely.
 5. Close the lock using the key.
 6. Make sure that the battery is inserted correctly and isn't able to fall out.
- ✓ The battery is fitted and locked.

8 DISPLAY AND OPERATION

The display and operation takes place via the HMI when the device is in use. Observe the safety instructions in this operating manual (see section „IMPORTANT SAFETY INFORMATION“) and in the accompanying documents.

For details on operation, refer to the enclosed user information for the operating unit.

8.1 LED indicators

The battery has five LEDs (2 - 6). The LED indicators display the charge level of the battery. In the error mode, the five LEDs display different errors; refer to section „Troubleshooting“.

The button (1) is used to check the charging status in standby mode.

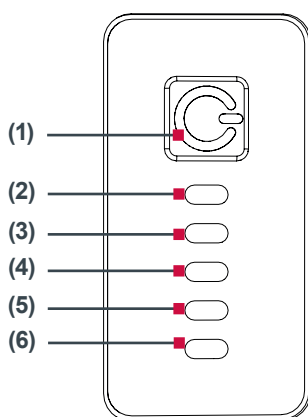












Fig. 6 LED indicators on the battery



- (1) Button
- (2) LED 1
- (3) LED 2
- (4) LED 3
- (5) LED 4
- (6) LED 5

Display when discharging

LED	Discharge level
	≤ 10%
	11 - 20%
	21 - 40%
	41 - 60%
	61 - 80%
	81 - 100%

Display when charging

LED	Charge level
	0 - 20%
	21-40%
	41-60%
	61-80%

	81 - 99%
	The charging process is complete. The LED indicator switches off after 5 minutes.

Display in the case of faults

For information on the indication of faults, refer to section „Troubleshooting“.

8.2 Initial calibration and calculations

For an accurate remaining range calculation and to display the state of charge (SoC) and the remaining charging time calculated by the system, it is important to carry out an initial battery calibration.

Charge the batteries to a 100% SoC before starting your trip. Depending on the battery capacity, a travel distance of at least 40-80 kilometers is required for complete discharge. Repeat this process twice.

Important: Do not use “Eco Charging Mode” for the first three charging cycles, as this will only charge the battery to 85%.

NOTICE

To conserve the battery during everyday use, use a SoC range of 20 - 80%. On long tours, the battery can be fully charged to a 100% SoC.

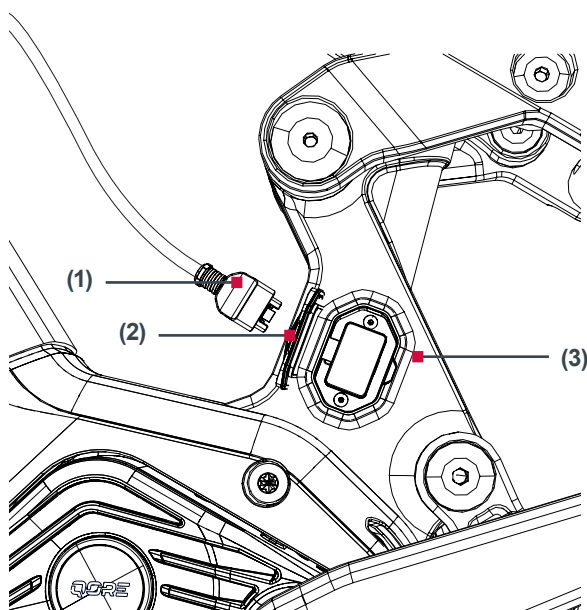
8.3 Charging the battery

The battery can be charged on either the EPAC or removed and charged. The battery can be charged when it is at any charge level. Interruptions to the charging process do not damage the battery.

NOTICE

If the charge level after charging with the smart Charger 250 is 85%, this is not a fault, but due to the specific charging mode. In this case, the charging mode must be changed to attain a full charge.

8.3.1 Charging the battery on the EPAC



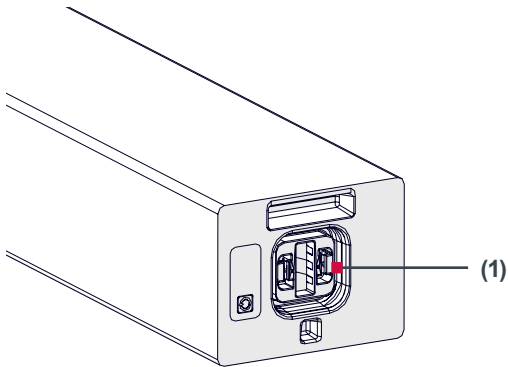
1. Switch the QORE System off on the operating unit. For information about the operating unit, refer to the respective operating manual.
2. Clean the charging port cover (2) to prevent dirt from getting on the contacts when opening it.
3. Open the charging port.
4. Connect the device plug to the mains socket of the charger.

5. Connect the charging plug of the charger (1) with the charging port on the EPAC (3).
6. Connect the charger power cord (country-specific) to the mains power supply.

The charging of the battery is in progress, with the charge level displayed by the LED indicator.

7. Once the charging process is over, disconnect the charger from the power supply and then from the battery.
8. Reattach the charging port cover (2) to prevent the ingress of dirt and water.

8.3.2 Charging the removed battery



1. Connect the device plug to the mains socket of the charger.
2. Connect the charging plug of the charger with the charging port (1) on the battery.
3. Connect the charger power cord (country-specific) to the mains power supply.

The charger switches off automatically when it is disconnected from the power supply.

4. Once the charging is complete, disconnect the charger from the power supply and then from the battery.

The charger switches off automatically when it is disconnected from the power supply.

9 Troubleshooting

The following information is intended to help you troubleshoot any faults that may occur when using the product.







If the fault cannot be resolved using the measures provided here, or if the fault is not detailed below, do not use the product and contact the customer service team at an authorized Yamaha dealer.

NOTICE

A diagnosis is only possible with the complete EPAC. In the case of complaints, the entire EPAC, including the battery, must therefore be returned to the specialist dealer.

9.1 LED indicators

In the error mode, the five LEDs display different errors.

LED	Meaning	Remedy
	Defective battery.	Contact the customer service team.
	Defective battery.	Contact the customer service team.
	The permissible temperature was fallen short of.	If the battery is too cold, store the battery at room temperature. If the error persists, contact the customer service team.
	The permissible temperature was exceeded.	Wait until the battery reaches the permissible temperature. If the problem persists, contact the customer service team.
	The permissible voltage was fallen short of.	Charge the battery. If the error persists, contact the customer service team.
	Defective battery.	If the error persists, contact the customer service team.



Component error

Contact the customer service team.



Hardware error

Disconnect the battery from the EPAC and check the discharge plug for damage. If the error persists, contact the customer service team.

10 Accessories and spare parts

10.1 Accessories

Product	Product number
Battery "Battery InTube 650"	G8K7J5
Battery "Battery InTube 800"	G8B371
Battery holder (Connector bracket)	G8G321
Battery holder (Lock bracket)	G8G325
Assembly aid	G8H2L8
Charger "smart Charger 250"	G66952
Country-specific cable (EU)	G66967
Country-specific cable (USA)	G66968

10.2 Spare parts

Necessary spare parts are available from Yamaha upon request. For information about extended maintenance and service procedures and the availability of spare parts, contact the Yamaha customer service team.

Manufac- turer	Yamaha Motor eBike Systems GmbH
Address	Sickingenstraße 29-38 10553 Berlin
Phone	+49 30 343498 100
Email	service.ebike@ yamaha-ebike-systems.com

11 DISASSEMBLY AND DISPOSAL

11.1 Disassembly

The disassembly takes place in the reverse order of the installation. When disassembling third-party components, always observe the respective accompanying information and specifications of the component manufacturer.

For information on the required tools and equipment, refer to the relevant section in section „ASSEMBLY“.

Removing the battery

1. Remove the battery cover.
 2. Secure the battery against falling.
 3. Open the battery lock by turning the key.
 4. Pull both locking levers at the top of the battery.
 5. Remove the battery.
- ✓ The battery has been removed.

11.2 Disposal



The symbol depicting a crossed out garbage bin indicates that a product and its accessories (e.g. charger, USB cable) must not be disposed of together with household waste at the end of their service life. To prevent damage to the environment or human health due to improper waste disposal and to support the sustainable reuse of material resources, these items must be separated from other types of waste and recycled responsibly.

- Private end-customers can dispose of the product at a public waste collection and/or take-back facility in their local area. The addresses of suitable waste disposal points are available from your city, county or district council. Comply with the local regulations.
- Commercial end-customers can dispose of the product at one of the following locations: Manufacturer / take-back system of the manufacturer.

Batteries and rechargeable batteries

Batteries/rechargeable batteries may contain substances that are harmful to the environment and human health. You are legally required to return used batteries / rechargeable batteries. Observe the disposal instructions on the batteries / rechargeable batteries.

- Before disposing of the product, take the options for the prevention of waste into consideration (e.g. sale or repair of functional products).
- Before disposal, erase all personal data from the product (e.g. saved login data, user names, passwords or files).
- Before disposing of the product, remove batteries / rechargeable batteries / lamps / illuminants if this can be done without damaging it.

In Germany, commercial customers can contact the following company for the purpose of free-of-charge take-back:

GRS Service GmbH
Gotenstraße 14
20097 Hamburg

<https://www.grs-batterien.de/kontakt/>

Outside Germany, contact the following company:

Go4Recycling GmbH
Rathenauplatz 9
50674 Cologne

<https://go4recycling.de>

12 EU Declaration of Conformity

12.1 Battery InTube 650



European Declaration of Conformity

Original declaration of conformity

- 1 Product
Battery for EPAC
Part number: G8F5B1-100
- 2 Name and address of the manufacturer
Yamaha Motor eBike Systems GmbH
Sickingenstraße 29-38
10553 Berlin
Germany
- 3 This declaration of conformity is issued under the sole responsibility of the manufacturer
- 4 Object of the declaration
Trade name: QORE Battery 650 Wh
Equipment category: EPAC system Charger
- 5 The object of the declaration described above is in conformity with the relevant Union harmonization legislation


Regulation 2023/1542/EU
Directive 2011/65/EU+ EU 2015/863 ROHS
Directive 2014/30/EU Electromagnetic Compatibility (EMC)
- 6 Reference to relevant harmonized standards and other technical specifications:

EN 50604-1:2016 + A1:2021
EN 62133-2:2017-08/A1:2022-04
EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019/A1:2021
EN 61000-3-3:2013/A2:2021




7 Signed on behalf of
Yamaha Motor eBike Systems GmbH

Berlin, December 04, 2025


Dr. Daniel Wolde-Giorgis, i.V. Yamaha Motor eBike Systems GmbH,
Deputy Managing Director

12.2 Battery InTube 800



European Declaration of Conformity
Original declaration of conformity

1 Product
Battery for EPAC
Part number: G8A0T2-100

2 Name and address of the manufacturer
Yamaha Motor eBike Systems GmbH
Sickingenstraße 29-38
10553 Berlin
Germany

3 This declaration of conformity is issued under the sole responsibility of the manufacturer

4 Object of the declaration
Trade name: QORE Battery 800 Wh
Equipment category: EPAC system Charger

5 The object of the declaration described above is in conformity with the relevant Union harmonization legislation

Regulation 2023/1542/EU
Directive 2011/65/EU+ EU 2015/863 ROHS
Directive 2014/30/EU Electromagnetic Compatibility (EMC)

6 Reference to relevant harmonized standards and other technical specifications:

EN 50604-1:2016 + A1:2021
EN 62133-2:2017-08/A1:2022-04
EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019/A1:2021
EN 61000-3-3:2013/A2:2021

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Status: 04.12 Dec. 2025
Index: 100



7 Signed on behalf of
Yamaha Motor eBike Systems GmbH

Berlin, December 04, 2025


Dr. Daniel Wolde-Giorgis, i.V. Yamaha Motor eBike Systems GmbH,
Deputy Managing Director



**IMPORTANT SAFETY INSTRUCTIONS
KEEP THESE INSTRUCTIONS**

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