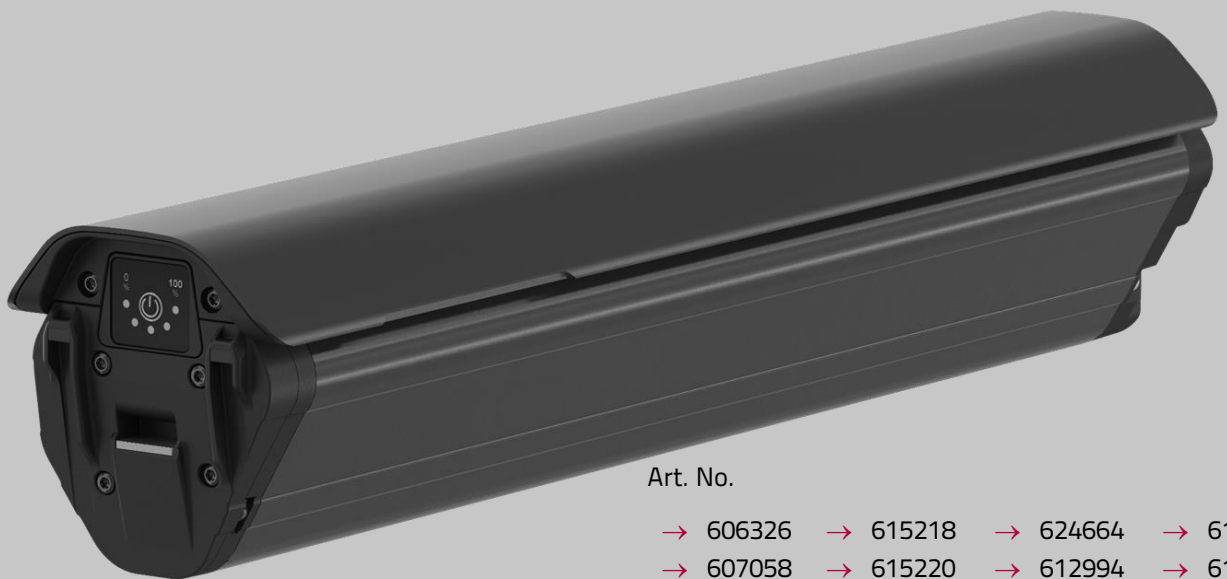


DOWNTUBE BATTERY UR-V10 Operating Instructions



Art. No.

- | | | | |
|----------|----------|----------|----------|
| → 606326 | → 615218 | → 624664 | → 612998 |
| → 607058 | → 615220 | → 612994 | → 613000 |
| → 608564 | → 616525 | → 616276 | |
| → 610845 | → 616640 | → 616277 | |
| → 611036 | → 618470 | → 616278 | |



Read carefully before use.
Keep for future reference.
Hand to next owner.



E-MOBILITY



DRIVE
SYSTEMS



ENERGY STORAGE
SYSTEMS



POWER- AND
GARDENTOOLS



INDUSTRIAL



MEDICAL

IDENTIFICATION

PRODUCT

Model: Downtube Battery UR-V10

Art. No.

- 606326
- 607058
- 608564
- 610845
- 611036
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- 615220
- 616525
- 616640
- 618470
- 624664
- 612994
- 616276
- 616277
- 616278
- 612998
- 613000

Country of Origin: Europe
Mark: CE

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DOCUMENT

Operating Instructions Downtube Battery UR-V10
MAN-10012
Revision: 1-5
As of: 4/21/2023
Subject to change.

IMPORTANT NOTICE ON THIS MANUAL




This document is intended for all users of the battery.

 WARNING
Read these instructions carefully before using the battery.
Failure to follow the safety notices and instructions may result in fire and/or serious injury.

Keep this manual accessible to all users of the battery.

The manual does not contain any information on operating the complete system (battery + motor + control unit).

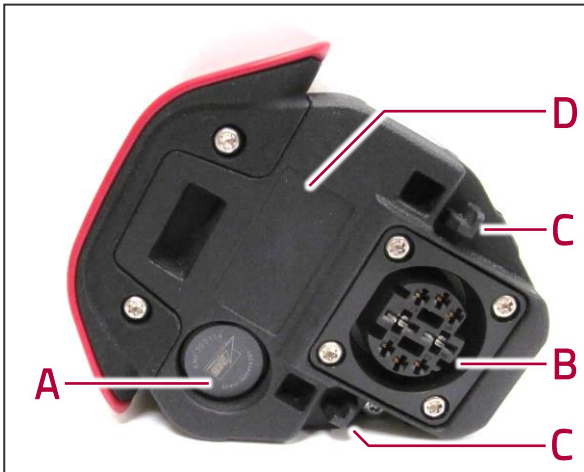
DESCRIPTION OF SIGNS

NOTICE	DESCRIPTION
 WARNING	Non-compliance can lead to severe injury or death.
 CAUTION	Non-compliance may lead to slight or less severe personal injury.
NOTICE	Non-compliance can lead to property damage.
	Tips, additional information

1 PRODUCT DESCRIPTION

1.1 GENERAL VIEW

- A pressure equalization membrane
- B connection socket
- C coding
- D burst protection
- E state of charge display with button
- F warranty seal
- G type plate



1.2 INTENDED USE

The battery supplies the drive system of the e-bike. It may only be used with the Shimano drive system.

Any other use is not intended and voids the warranty.

A defective or missing warranty seal voids warranty and guarantee.

1.3 COMPATIBLE CHARGERS

- For 36 V: BMZ Art. No. 606329
- For 48 V: BMZ Art. No. 609387

1.4 TECHNICAL INFORMATION

1.4.1 PERFORMANCE DATA

SYSTEM	36 V	48 V
Capacity (nom.)	20 Ah	15 Ah
Energy	725 Wh	720 Wh
Voltage (nom.)	36 V	48 V
Weight	ca. 3.7 kg	ca. 3.7 kg
Energy consumption active	200 mW	200 mW
Energy consumption inactive	0.7 mW	0,7 mW

1.4.2 ENVIRONMENTAL CONDITIONS

OPERATING STATE	ENVIRONMENTAL CONDITION
Charging	0...45 °C
Discharging	-20...55 °C
Storing	-20...45 °C (10...25 °C recommended) The storage place must be well ventilated. Humidity: 0...80 %

1.5 STATE OF CHARGE DISPLAY

The state of charge is displayed briefly by pressing the button. When the battery is inserted, the state of charge can only be read via the control unit.



FIGURE 1: STATE OF CHARGE DISPLAY AND BUTTON

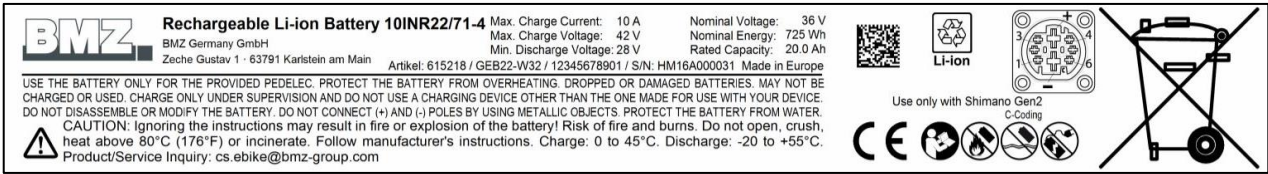


FIGURE 2: TYPE PLATE EXAMPLE

EXPLANATION OF SYMBOLS

SYMBOL	MEANING
●	LED on
○	LED off
*	LED blinking

STATE OF CHARGE

LED 1, 2, 3, 4, 5	STATE OF CHARGE
●●●●●	100...80 %
●●●●○	79...60 %
●●●○○	59...40 %
●●○○○	39...20 %
●○○○○	19...10 %
*○○○○	9...0 % Re-charge battery within two days at the latest to avoid permanent damage.

1.6 LABELLING

For the position of the label, see section 1.1, for the inscription, see Figure 2, page 4.

MEANING OF SIGNS

SIGN	MEANING
	General warning sign
	Do not throw into fire.
	Do not immerse in liquid.
	Do not charge defective battery.
	Follow operating instructions.

SIGN	MEANING
	Symbol for lithium ion battery (contains recyclable materials)
	Conform with relevant European directives.
	Do not dispose of in domestic or industrial waste.

2 SAFETY

When misused, lithium ion batteries pose a threat of explosion and fire. Adhere to safety advice to minimize risks and to avoid misuse.

2.1 SAFETY NOTES

- Use the battery and equipment only if in proper condition.
- Never use a damaged or broken battery.
- Only use the battery that is approved for your e-bike.
- Use the battery only in connection with the intended e-bike system to protect the battery from dangerous overload.
- Charge the battery before use. Only use compatible chargers.
- Only connect compatible chargers to the charging port of the e-bike.
- Keep the battery and its contacts clean and dry. Clean contacts with a dry brush if they are dirty.
- Do not clean the battery with solvents (i. e. dilution, alcohol, oil, anti-corrosives), detergents, or running water.
- Persons (including children) with reduced physical, sensory or mental abilities or lack of experience and knowledge may not use the battery, unless they are supervised and

instructed by a person responsible for their safety.

- Do not expose the battery to strong mechanical impacts. It poses a risk of damage to the battery.
- Do not allow children to play with the battery.
- Do not open or dismantle the battery.
- Do not short circuit the battery.
- Do not modify or manipulate the battery, its contacts or the charging port of the e-bike.
- Do not cover or remove the burst protection and pressure equalization membrane.
- Observe ambient conditions.
- Do not expose the battery to drastic temperature changes.
- Protect the battery from temperatures above 80 °C, direct sunlight, and fire. Excessive heat may result in battery leakage and damage to the housing. Avoid contact with the liquid.
- Wipe up leaked electrolyte with an absorbent cloth. In case of major leakage wear protective clothing, gas mask against organic gases, safety goggles and protective gloves.
- Do not immerse the battery in any liquid.
- Do not use the battery if contacts or cables are damaged.
- Remove the battery from the e-bike when not in use for a longer time.

2.2 EMERGENCY INFORMATION

2.2.1 FIRST AID MEASURES

Mechanical, thermal or electrical abuse may cause chemicals and toxic gases to escape. Symptoms obviously caused by inhalation or ingestion of combustion gases or eye or skin contact require medical attention.

AFTER INHALATION

Ventilate immediately or get fresh air, in worse cases call a doctor immediately.

AFTER SKIN CONTACT

Wash skin thoroughly with soap and water.

AFTER EYE CONTACT

Irritation to the eyes may occur. Immediately flush eyes thoroughly with water for 15 minutes, then seek medical attention.

AFTER INGESTION

If the contents of an opened cell are swallowed, do not give anything by mouth if the person rapidly

becomes unconscious, is unconscious or has seizures. Rinse the mouth thoroughly with water. Do not induce vomiting. At spontaneous vomiting, bring the person in lean-forward position to reduce the risk of suffocation. Rinse mouth with water again. Seek medical attention immediately.

2.2.2 FIRE FIGHTING MEASURES

WARNING

Combustion gases can cause damage to health. Extinguishing water can react to form highly toxic gas.

- Do not inhale gases.
- Stand on the side of the fire from which the wind is coming. If this is not possible, wear self-contained breathing apparatus and appropriate protective suit.

1. Call fire department and report lithium fire.
2. Evacuate all persons from the immediate fire area.
3. Use dry chemicals, CO₂, water spray or conventional foam to extinguish fire.

3 OPERATION

3.1 BEFORE FIRST USE

- Note the number engraved on the key so that a replacement key can be ordered if lost.

3.2 INSERTING THE BATTERY

1. Secure the lock.



2. Insert the battery socket onto the plug of the holder.



- Snap the battery into the lock.



- Remove the key.



Check that the battery is firmly locked in place.

3.3 REMOVING THE BATTERY

- Release the lock.



- Lift the battery at the indentation and then remove it to the rear.



3.4 SWITCHING THE BATTERY ON AND OFF

AUTOMATICALLY

The battery is switched on and off via the e-bike's control unit. It switches off automatically when not in use.

MANUALLY

To switch on, press the button for appr. 1 s. The LEDs light up in sequence and then briefly indicate the state of charge.

To switch off, press the button for appr. 4 s. All LEDs light up and go out in sequence.

3.5 CHARGING THE BATTERY

NOTICE

Only a compatible charger may be connected to the charging port.

Do not connect any other devices.

Observe operating instructions of the charger.

The battery can be charged directly or via the charging port on the e-bike.

After charging, push in the cover of the charging port as far as it will go.



If the battery cannot be charged or is damaged, do not use it and contact your e-bike dealer.

Depending on the charging state, the top LED flashes:

LED 1, 2, 3, 4, 5	STATE OF CHARGE
* ○ ○ ○ ○	0...19 %
● * ○ ○ ○	20...39 %
● ● * ○ ○	40...59 %
● ● ● * ○	60...79 %
● ● ● ● *	80...99 %
● ● ● ● ●	100 %

3.6 TROUBLESHOOTING

MALFUNCTION	POSSIBLE SOLUTION
All LEDs blinking and error code on display.	Battery is non-operational. Please contact your dealer.
One LED is blinking	Charge battery.

MALFUNCTION	POSSIBLE SOLUTION
Battery does not work	<ul style="list-style-type: none"> → Press power button to switch on → Battery too cold: Place in warm environment → Battery too warm: Allow to cool down → Battery deeply discharged due to incorrect storage. Contact your dealer.
Too little range	<ul style="list-style-type: none"> → Low ambient temperature: Less range in cold weather is normal. → Loss of capacity due to incorrect storage or natural battery ageing: Replace battery.

If no suitable solution is listed, please contact your dealer.

4 MAINTENANCE AND CLEANIG

The battery is maintenance-free.

If necessary, clean it with a dry or slightly damp cloth.

5 STORAGE

SAFETY PROVISIONS

- Do not store battery near hot or inflammable objects. Danger of explosion.
- Do not store battery near heaters. Protect battery from direct sunlight.
- Store battery in a dry place away from flames and food.
- Keep small metallic objects away from the battery. They may accidentally bridge contacts.
- Store the battery at approx. 50 % state of charge. After three months, check the state of charge and recharge to approx. 50 % if necessary.
- Observe environmental conditions.

6 TRANSPORT

6.1 SHIPPING

The battery is classified as dangerous goods and may only be packed and shipped by especially

trained personnel. Contact your dealer for more information.

6.2 TRANSPORT BY ROAD

Private users may transport their battery on public roads without any restrictions.

Commercial users or third parties carrying out the transport must comply with the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

7 DISPOSAL

Do not dispose of the battery in household waste. In the EU, consumers are obliged to return used batteries.

To avoid short circuits, discharge the battery completely and tape the poles with adhesive, non-conductive strips.

More Information?

Feel free to contact us. We are glad to help.



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