



Downtube Battery V5

OPERATING INSTRUCTIONS



IDENTIFICATION

PRODUCT

Model: Downtube Battery V5
Art. No. 40286-00
Art. No. 40465-00
Art. No. 602013
Country of Origin: Germany
Mark: CE

MANUFACTURER

BMZ Batterien-Montage-Zentrum GmbH
Zeche Gustav 1
63791 Karlstein am Main
Germany

Phone: +49 6188 9956-0
Fax: +49 6188 9956-900
E-Mail: kontakt@bmz-group.com
Web: www.bmz-group.com

CUSTOMER SERVICE

BMZ Service Center
Am Sportplatz 15-17
63791 Karlstein am Main
Germany


Phone: +49 6188 9956-9833
Fax: +49 6188 9956-699
E-Mail: cs.ebike@bmz-group.com
Web: www.bmz-central-service.com

DOCUMENT

Operating Instructions Downtube Battery V5
Version: 1.0
As of: 09.04.2020
Subject to change.

IMPORTANT NOTICE

These instructions are 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 NOTICES



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.
i	Tips, additional information

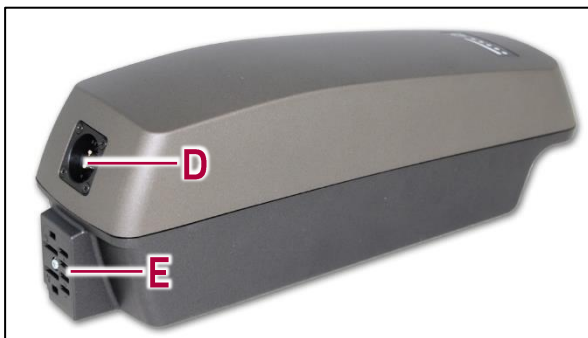
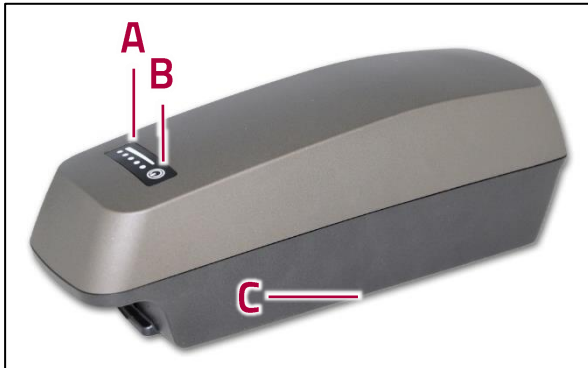
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1 PRODUCT DESCRIPTION

1.1 OVERVIEW

- A State of charge display
- B Power button
- C Label on the bottom side (see 1.6)
- D Charging socket
- E Discharging socket



1.2 INTENDED USE

The battery supplies the drive system of the e-bike. It may only be used with compatible drive systems and chargers designed for this purpose.

Any other use is not permitted. Any improper use will void the warranty.

1.3 TECHNICAL DATA

	10S 4P
Nominal capacity	13.3 Ah
Energy	499.4 Wh
Nominal current	36.3 V
Weight	appr. 3.3 kg
Dimensions in mm (W x H x L)	313 x 115 x 93

1.4 SAFETY FEATURES

A protection circuit protects the battery against overcharging, deep discharge, overcurrent, short circuit, and operation outside the permitted temperature range.

1.5 LED DISPLAY

LED DISPLAY AND POWER BUTTON



EXPLANATION OF SYMBOLS

Symbol	Meaning
●	LED on
○	LED off
*	LED blinking

STATE OF CHARGE

Press power button shortly to see the state of charge.

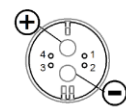
LED 1, 2, 3, 4, 5	SOC
●●●●●	100...80 %
●●●●○	79...60 %
●●●○○	59...40 %
●●○○○	39...20 %
●○○○○	19...10 %
*○○○○	9...0 %
	Re-charge battery within two days at the latest to avoid permanent damage.

1.6 BATTERY LABEL

LABEL ON THE BOTTOM OF THE BATTERY

Rechargeable Li-ion Battery 10INR19/66-4

Nominal Voltage: 36.3 V
 Rated Capacity: 13.3 Ah
 Energy: 499.4 Wh
 S/N: AB121123456











CAUTION:
 Risk of fire and burns.
 Do not open, crush, heat above 80°C (176°F) or incinerate.
 Follow manufacturer's instructions.
 Charge: 0 to 45°C. Discharge: -20 to 60°C.

Made in Germany GEB19-W24 / Art.: 40286-00 / 1234567



MEANING OF SIGNS

Sign	Meaning
	General warning symbol
	Do not throw into fire.
	Do not immerse in liquid.
	Do not charge defective battery..
	Follow operating instructions.
	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

- Remove battery from e-bike for handling (i. e. maintenance), transportation or storage. Unintentional activation of the e-bike poses risk of injury and/or damage.
- 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 this battery only in e-bikes with BMZ systems. Your battery is only protected from dangerous overload if used in the intended application.
- Charge the battery before use. Only use the charger which was supplied with the battery.
- Keep the battery and its contacts clean and dry. Remove any dirt with a clean and dry cloth.
- 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 expose the battery to drastic temperature changes.
- Protect the battery from temperatures above 140 °F (60 °C), direct sunlight, and fire. Excessive heat may result in battery leakage and damage to the housing.
- Do not immerse the battery in any liquid. Do not clean with high-pressure cleaner.
- Do not use the battery if contacts are damaged. Do not use with damaged power cables.

2.2 EMERGENCY INFORMATION

2.2.1 FIRST-AID MEASURES

Medical aid will be required in case of symptoms caused by combustion gases or leakage.

AFTER INHALATION

In case of damage or improper use chemical gases may leak. Leave area immediately and breath fresh air. Seek medical attention in case of any symptoms. Gases may cause respiratory irritation.

AFTER SKIN CONTACT

Remove solid parts immediately. Flush affected areas with plenty of water (at least for 15 min). Carefully pad dry affected areas– do not rub. Remove contaminated clothes immediately. Seek medical attention immediately if skin shows redness or irritation.

AFTER EYE CONTACT

Flush eye gently with plenty of water (at least for 15 min). Shield unaffected eye. Seek for medical attention immediately.

AFTER INGESTION

Drink plenty of milk or water and induce vomiting. Seek medical attention immediately.

2.2.2 FIRE FIGHTING MEASURES

WARNING	
	<p>Inhaling smoke can cause poisoning.</p> <ul style="list-style-type: none"> ▶ When facing the fire, position yourself with wind in your back. ▶ If possible, use breathing protection.

1. If possible, remove other batteries carefully.
2. Evacuate all persons from immediate area of fire.
3. To fight the fire use plenty of water or a class D fire extinguisher.
4. Call the fire department if fire cannot be extinguished or controlled.

3 OPERATION

3.1 SAFETY NOTES

Only use batteries that are approved for your e-bike. Before use, check that the battery and housing are in good condition.

Turn off the battery before inserting or removing it. Observe the locking mechanism and check the battery for tightness before each ride.

For detailed safety instructions on how to use and transport the battery, refer to chapter 2 and 4.

3.2 SWITCHING ON THE BATTERY

Shortly press the power button to switch on the battery. LEDs will sequentially light up and go out again.

3.3 CHARGING THE BATTERY

Only use the charger delivered with your e-bike. Follow the operating instructions of the charger.

Ambient temperature: 32 to 113 °F (0 to 45 °C)

The battery can be charged separately or on the e-bike.

i If the battery won't charge or is damaged, do not use it and contact your e-bike dealer.

Depending on the state of charge the highest LED will blink:

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

STATE OF CHARGE IN PERCENTAGE

3.4 SWITCHING OFF THE BATTERY

Press and hold the button to switch off the battery. LEDs light up and go out one after the other.

The battery switches off automatically when not in use.

3.5 INSTALLATION

3.5.1 INSERTING THE BATTERY

NOTICE

The battery may fall out of the frame due to vibration.

- ▶ Lock the battery with the key.

1. Make sure that the battery is switched off (see 3.4.) Put the discharging socket onto the contacts in the battery holder.



2. Snap the opposite side into the lock.



3. Lock the battery and remove the key. Check if the battery is firmly in place.



3.5.2 REMOVING THE BATTERY

NOTICE

Battery may drop after it is unlocked.

- ▶ Hold battery securely while unlocking and removing it.

1. Make sure that the battery is switched off (see 3.4.) Unlock the battery with the key.



2. Tilt the battery towards the key until you can remove the battery.



3.6 TROUBLESHOOTING

Problem	Possible Solution
All LEDs blinking and error code on display.	Battery is non-operational. Please contact Service Center.
One LED is blinking	Charge battery.
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.

Problem	Possible Solution
Too little range	<ul style="list-style-type: none"> ■ Low ambient temperature: Less range in winter 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.

3.7 CLEANING

Switch off the battery before cleaning.

If necessary, clean the battery with a dry cloth.

Keep battery contacts clean. If soiled, clean with a dry cloth.

4 STORAGE AND TRANSPORT

4.1 STORAGE

SAFETY PROVISIONS

- Remove battery from e-bike or charger when it is not in use.
- Do not store battery near hot or inflammable objects. Danger of explosion.
- Temperatures above 140 °F (60 °C) may lead to leakage and damage to battery's housing. Avoid contact with leaked substance.
- 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.
- Storage temperature
 - recommended: 50 to 77 °F (10 to 25 °C)
 - maximum: -4 to 113 °F (-20 to 45 °C)
- Humidity: 0 to 80 %.

4.2 TRANSPORT

4.2.1 DISPATCH

The battery is categorized as a dangerous good and may only be packaged and dispatched by

especially trained personnel. Contact your vendor for more information.

4.2.2 TRANSPORT ON PUBLIC ROADS

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

Commercial users or third parties transporting lithium ion batteries need to adhere to respective dangerous goods regulations.

5 DISPOSAL

Do not dispose of the battery in household waste. In the EU, consumers are obliged to return used batteries. The return is free of charge. To avoid short circuits, discharge the battery completely and tape the poles with adhesive, non-conductive strips.

If batteries are not disposed of properly, they pose a risk of fire, health and environmental hazards.

DROP-OFF POINTS

- Manufacturer
- E-bike vendor
- Local recycling centers

**BMZ GmbH**

Zeche Gustav 1
63791 Karlstein am Main
Germany

Phone: +49 6188 9956-0
Fax: +49 6188 9956-900

E-Mail: kontakt@bmz-group.com

BMZ Company Ltd.

Julong Technology Building B
Cuibao Road, Longgang District, Shenzhen,
Guangdong Province P.R.China 518116

Phone: +86 755 8977 5800
Fax: +86 755 8977 5900

E-Mail: contact.cn@bmz-group.com

BMZ USA Inc.

1429 Miller Store Road
Virginia Beach, VA 23452
USA

Phone: +1 757 821-8494
Fax: +1 757 821-8499

E-Mail: contact-usa@bmz-group.com

BMZ Poland Sp.z.o.o.

Ul. Leonarda da Vinci 5
44-109 Gliwice
Poland

Phone: +48 327842 450
Fax: +48 327842 451

E-Mail: biuro@bmz-group.com

BMZ Japan KK

Shitaya 1-6-5, Taito-ku
Tokyo
110-0004 Japan

Phone: +81 35811 1973

E-Mail:
Tokio.Kobayashi@bmz-group.com

BMZ France S.A.R.L.

45 Boulevard Vincent Auriol
75013 Paris
France

Phone: +33 9 87 37 42 62

E-Mail:
jean-marc.brunet@bmz-group.com