



Cargo Rack Battery V2

ORIGINAL OPERATING INSTRUCTIONS



IDENTIFICATION

PRODUCT

Model: Cargo Rack Battery V2
Art. No. 40283-00
Country of Origin: Germany
Mark: CE

MANUFACTURER

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DOCUMENT

Original Operating Instructions Cargo Rack
Battery V2
Version: 1.0
As of: 18.11.2019
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 with Power Button
- B Charging Socket
- C Connector Box with Lock



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.

If the warranty seal is defective or missing, the warranty and guarantee expire.

1.3 TECHNICAL DATA

	10S 5P
Nominal Capacity	16.6 Ah
Nominal Energy	624.3 Wh
Nominal Current	36.3 V
Weight	3.9 kg
Dimensions in mm (B x H x L)	120 x 85,5 x 317

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

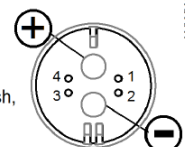
Rechargeable Li-ion Battery 10|NR19/66-5

Nominal Voltage: 36.3 Vdc
 Energy: 624.3 Wh
 Rated Capacity: 16.6 Ah
 S/N: AB121123456



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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-W34 / Art.:40283-00 / 1234567

MEANING OF PIKTORGRAMS

Symbol	Meaning
 Li-ion	Symbol for lithium-ion battery (contains recyclable materials)
	Conformity with relevant European directives
	General warning symbol
	Do not immerse in liquid.
	Do not throw into fire.
	Do not charge defective battery.
	Follow operating instructions.
	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 overloading if used in the intended application.
- Charge the battery before use. Only use the supplied charger which was part of your delivery scope.
- Keep the battery and its contacts clean and dry. Remove any dirt with a clean and dry cloth.
- Do not use any solvents (i. e. dilution, alcohol, oil, anti-corrosives), detergents, or running water to clean the battery.
- 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 casing.
- 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 advice 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 for medical attention 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 assistance 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 case 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.

Environmental condition: -20 to 60 °C

Detailed safety instructions for using and transporting the battery can be found in chapter 2.1.

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

Follow the operating instructions of the charger.

Ambient temperature: 0 to 45 °C

Only use the charger included in the scope of delivery of your e-bike. The battery can be charged separately or on the e-bike.

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

Depending on the state of charge the top 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

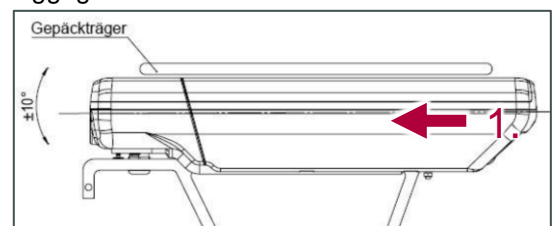
3.5.1 INSERTING THE BATTERY

NOTICE

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

- ▶ Lock the battery in place with the key.

1. Insert the switched off battery under the luggage rack.



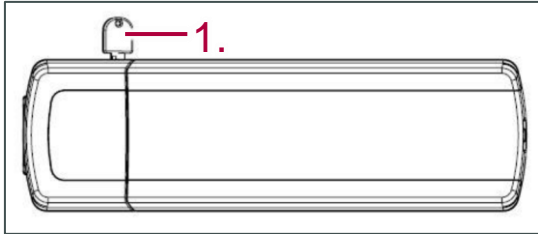
2. Lock with key and remove the key.

3.5.2 REMOVING THE BATTERY

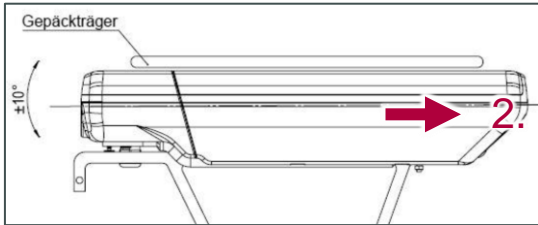
NOTICE

Carefully pull out the battery so that it does not fall to the ground.

1. Switch off the battery and unlock it.



2. Grasp the battery by the recess on the underside and pull it out a little. Fully remove with both hands so that it does not fall to the ground.



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.
Cover cap defective	Have it checked by your dealer.
Torn charger plug cover	Do not use battery, as plug is loose
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 TRANSPORTATION

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 casing. 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 a state of charge of approx. 50 %. After three months, check the state of charge and recharge to approx. 50 % if necessary.
- Storage temperature recommended: 10 to 25 °C
maximum: -20 to 45 °C
- Humidity: 0 to 80 %.

4.2 TRANSPORTATION

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 their 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

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