



# RangeExtender

ORIGINAL OPERATING MANUAL

## IDENTIFICATION

### PRODUCT

RangeExtender  
Art. no. 27569-01  
Mark: CE  
Manufactured in China

### MANUFACTURER

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### DOCUMENT

Original Operating Manual RangeExtender  
Art. no. 27771-1  
Index 2.2  
Last changed 2 Oct 2018  
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## IMPORTANT INFORMATION ON THIS OPERATING MANUAL

### PURPOSE

This manual contains important information for the safe and error-free use of the RangeExtender. It is intended for all users of the RangeExtender.

Failure to observe the safety information listed here may result in electrical shock, fire, severe injuries or death. The manufacturer accepts no liability for damages caused by failure to observe this operating manual.

- Read this operating manual carefully before using the RangeExtender.

### STORAGE

- Store this manual near the RangeExtender.
- Inform all users of the RangeExtender where this manual is stored.
- Hand over this manual to any subsequent owners of the RangeExtender.

### SYMBOL EXPLANATIONS






Symbols	Meaning
	Failure to observe this information will lead to severe injuries or death. High degree of risk.
	Failure to observe this information may lead to severe injuries or death. Medium degree of risk.
	Failure to observe this information can lead to slight or moderate injuries. Low degree of risk.
	Failure to observe this information can result in property damage.
	Tips, further information.

Table 1: Meanings of symbols used

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# 1 PRODUCT DESCRIPTION

## 1.1 OPERATING ELEMENTS

- A Charge level display
- B Button
- C Hook and loop strap
- D Connection adapter charge cable / discharge cable



Figure 1: RangeExtender, overall view

## 1.2 INTENDED PURPOSE

The RangeExtender is a mobile charger that charges e-bike batteries during a stop. This increases their range by approximately 50%.

### FUNCTION

The RangeExtender can be attached to a bottle cage using its hook and loop strap. The RangeExtender charges the e-bike battery via the discharge cable. The RangeExtender is recharged using the adapter charging cable and original e-bike charger.

### COMPATIBILITY

The RangeExtender is suitable for charging Li-ion batteries with a rated voltage between 36 V and 37 V.

Different cable kits are required depending on the design of the e-bike battery:

E-bike battery design	Cable kit Art. no.	Special feature
Down tube / integral	27786	Straight discharge cable
Seat tube	27787	Angled discharge cable

Table 2: Matching cable kits

## 1.3 CONFORMITY

See Figure 3: Declaration of Conformity, page 7.

## 1.4 PRODUCT LABELING

- A Wiring: 10 cells serial, 2 cells parallel
- B Complies to relevant European standards
- C Read operating manual before use
- D Contains recyclable materials
- E Do not throw into a fire.
- F Do not immerse in liquid.

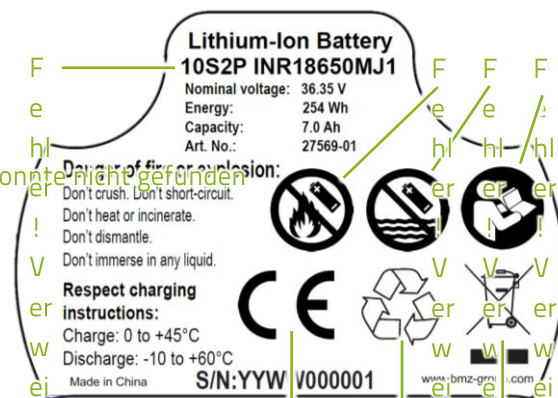


Figure 2: Label

## 1.5 EQUIPMENT

### 1.5.1 SCOPE OF DELIVERY

- 1x RangeExtender
- 1x Quick guide

### 1.5.2 ACCESSORIES

- Cable kit (see Table 2, page 5)

E-bike battery design	Cable kit Art. no.	Scope of delivery
Down tube / integral	27786	1x straight discharge cable 1x adapter charging cable 1x long hook and loop strap 3x short hook and loop strap
Seat tube	27787	1x discharge cable 90° angled 1x adapter charging cable 1x long hook and loop strap 3x short hook and loop strap

Table 3: Cable kit compatibility with e-bike battery

## 1.6 TECHNICAL DATA

### 1.6.1 PERFORMANCE FEATURES

Cell type	INR18650MJ1
Cell wiring	10 serial, 2 parallel
Voltage (nominal)	36.35 V
Power (nominal)	254 Wh
Discharge voltage (outgoing)	42 V (CC/CV)
Discharge current (outgoing)	max. 3.2 A
Efficiency	85.3 %

Table 4: Performance features

### 1.6.2 DIMENSIONS AND WEIGHT

Diameter	74 mm
Length	241 mm
Weight	approx. 1.5 kg

Table 5: Dimensions and weight

### 1.6.3 DISPOSAL

Charge voltage (ingoing)	41 V ... 42.5 V
Charge current (incoming)	max. 4 A

Table 6: Supply, interfaces, connections

### 1.6.4 AMBIENT CONDITIONS

Ambient charging temperature	0 ... 45 °C
Ambient discharging temperature	-20 ... 60 °C
Air humidity	40 ... 80% RH

Table 7: Ambient conditions

## 1.7 OPERATING MODES

The RangeExtender has two operating modes:

- Passive mode (standby mode)
- Active mode

### PASSIVE MODE

The charge and discharge functions are switched off in passive mode to keep the RangeExtender's power usage as low as possible.

### ACTIVE MODE

The RangeExtender can be charged and discharged in active mode. The charge status is displayed when the button is pressed.

### SWITCH TO ACTIVE MODE

Connect the discharge cable or press the button to switch the RangeExtender to active mode.

### SWITCH TO PASSIVE MODE

If the RangeExtender is not in use, it will switch to passive mode after ten minutes.

## 1.8 LED DISPLAY

Condition	LED pattern	Charge status
Discharge or after pressing button	*○○○	almost empty
	●○○○	0 % ... 25 %
	●●○○	26 %... 50 %
	●●●○	51 %... 75 %
	●●●●	76 % ... 100 %
Error	* * * *	unknown
Load	*○○○	0 % ... 25 %
	● * ○○	26 % ... 50 %
	●● * ○	51 % ... 75 %
	●●● *	76 %... 99 %
	●●●●	100 % ⇒ switch to passive mode
Passive mode	○○○○	

Table 8: LED pattern

### SYMBOL KEY

- = LED illuminated
- \* = LED flashing
- = LED off

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## EG-Konformitätserklärung

**Firma:** BMZ GmbH  
**Anschrift:** Am Sportplatz 28  
 63791 Karlstein  
**Produkt:** Lithium-Ionen-Batterie  
**Bezeichnung:** 10S2P INR18650MJ1 36.35V 7.0Ah 254Wh  
**Artikel-Nr. :** 27569-01

Für das oben angegebene Produkt bestätigen wir,  
 dass es den Anforderungen der folgenden  
 Europäischen Richtlinien und Normen entspricht:

Die Übereinstimmung des Produkts mit den Richtlinien  
 wird nachgewiesen durch die vollständige Einhaltung der  
 angeführten harmonisierten und nicht harmonisierten  
 Normen:

### 2011/65/EU RoHS-Richtlinie

Richtlinie des Europäischen Parlaments und des Rates  
 zur Beschränkung der Verwendung bestimmter  
 gefährlicher Stoffe in Elektro- und Elektronikgeräten

### EN 62133:2013

Akkumulatoren und Batterien mit alkalischen oder anderen  
 nicht säurehaltigen Elektrolyten - Sicherheitsanforderungen  
 für tragbare gasdichte Akkumulatoren und daraus  
 hergestellte Batterien für die Verwendung in tragbaren  
 Geräten

### 2014/30/EU EMV-Richtlinie

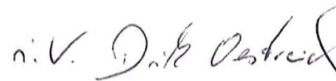
Richtlinie des Europäischen Parlaments und des Rates  
 zur Angleichung der Rechtsvorschriften der Mitgliedstaaten  
 über die elektromagnetische Verträglichkeit

EN 55014-1:2006 + A1:2009 + A2:2011  
 EN 55014-2:2015  
 EN 61000-3-2:2014  
 EN 61000-3-3:2013

Karlstein am Main, 06.03.2018



Sven Bauer, Geschäftsführer



i.V. Dirk Oestreich, Leiter Entwicklung

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, sichert jedoch keine Eigenschaften im Sinne des Produkt-  
 haftungsgesetzes zu.

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 BIC:DEUTDEFF508 IBAN:DE85508700050010501500BLZ 50870005

Kto. 1057702  
 Kto. 240004283  
 Kto. 010501500

Figure 3: Declaration of Conformity



## 2 SAFETY

### 2.1 INTRODUCTION

The RangeExtender fulfils the requirements for state of the art technology and recognised safety technology regulations. However, it may pose certain risks if used incorrectly. Therefore, only use the RangeExtender for its intended purpose and always observe all safety information.

### 2.2 PROPER USE

- Charging the e-bike battery while riding is not permitted.
- Only operate the RangeExtender in accordance with category 1 pursuant to international standard ASTM F2043-13. (Constant contact between wheels and asphalt or paved surfaces.)
- Only use the RangeExtender in compliance with the following documents:
  - This manual
  - Your e-bike battery operating manual
  - Your original charger operating manual
  - Your e-bike operating manual
- Only use the RangeExtender if it is in proper condition:
  - The RangeExtender is undamaged.
  - The charger is undamaged.
  - All cables are undamaged.
- Only use the RangeExtender to charge permitted 36/37-V Li-ion e-bike batteries.
- Only charge the RangeExtender with the original e-bike battery charger.

Improper use will void the warranty.

### 2.3 SAFETY INFORMATION

- Persons (including children) with reduced physical, sensory, or mental abilities, or who lack experience and knowledge, may not use the RangeExtender unless they are monitored or instructed by another individual responsible for their safety on how to use the battery.
- Children may not play with the RangeExtender.
- The RangeExtender may not be used at elevations above 2000 m.
- Never open, disassemble, or cut open the RangeExtender.

- Do not expose the RangeExtender to extreme heat or fire.
- Do not short circuit the RangeExtender. Avoid contact with metal objects.
- Do not remove, circumvent, or bypass safety equipment.
- Do not expose the RangeExtender to any severe mechanical shocks, such as those that occur during off-road use, downhill riding, or jumping.
- Store the RangeExtender in a dry and clean place.
- Do not allow the RangeExtender to come into contact with solvents (such as thinners, alcohol, oil, corrosion protection) or chemicals that could impact surfaces (such as cleaning agents).
- The RangeExtender must be charged before use. Only use the appropriate charger for a compatible e-bike battery for this purpose. Follow the charger's instructions during the charging process.
- The RangeExtender will offer the best capacity if used in a temperature range between 15-25 °C.
- Store the original print-outs of these documents with product information for later inspection.
- The RangeExtender may only be used for its intended applications.
- If possible, remove the RangeExtender from the e-bike when not in use.
- Please follow the instructions for disposing of the RangeExtender (section 5).
- Recommended storage temperature: -10 °C to 30 °C
- Store the RangeExtender in a dry place, far from open flame and foods.
- Avoid major temperature fluctuations.
- Do not store near heating equipment, avoid direct sunlight.
- Store at 75% of rated capacity if possible.
- Temperatures above 60 °C can cause the battery to discharge or burst.

### 2.4 POSSIBLE HAZARDS OF IMPROPER USE

Lithium-ion batteries may catch fire, explode, or cause chemical burns if used improperly.



They will not emit any hazardous substances under normal conditions. There is only a risk of contact with hazardous substances if they are used improperly (mechanical, thermal, electrical), causing the safety valve to activate, or if the housing is broken. This may result in leaking electrolyte liquid, reactions between electrode materials and moisture, or battery venting / fire / explosion, depending on surrounding circumstances.



Touching live components may cause electrical shock, which may create intense heat or paralyse muscles. This may result in ventricular fibrillation, cardiac arrest, respiratory paralysis, or death.

## AFTER SWALLOWING

Drink a large amount of milk or water, and induce vomiting. Find a doctor.

## 2.5 EMERGENCY INFORMATION

### 2.5.1 FIRE FIGHTING MEASURES

 <b>WARNING</b>	
	<p>If a battery is on fire, smoke or vapour produced may cause irritation to the eyes, skin, or respiratory tract.</p> <p>► To avoid breathing in toxic vapours, stand upwind of the fire.</p>

1. If possible, carefully remove any other batteries.
2. Evacuate everyone from the immediate area of the fire.
3. Use a large amount of water or fire class D fire extinguishers to fight the fire.

### 2.5.2 FIRST AID MEASURES

Symptoms apparently caused by breathing in or swallowing combustion gases, or eye or skin contact, will require medical assistance.

#### AFTER BREATHING IN

Leave the area immediately. Give the person fresh air. Find a doctor.

#### AFTER SKIN CONTACT

Remove solid particles immediately. Flush the affected area with lots of water (at least 15 min). Remove soiled clothing immediately Find a doctor.

#### AFTER EYE CONTACT

Carefully flush eyes with lots of water (at least 15 min). Protect unaffected eye. Find a doctor.

## 3 OPERATION

### 3.1 SAFETY INFORMATION

#### 3.1.1 CHARGING SAFETY

- Never charge the RangeExtender unsupervised.
- Only charge the RangeExtender with the original charger of a compatible e-bike.
- Always observe the operating manual for the e-bike battery and original charger.
- Note the ambient temperature: 0 ... 45 °C.
- Ensure sufficient air circulation.

It is normal for the temperature of the RangeExtender to increase slightly during charging and discharging.

#### 3.1.2 SAFE INSTALLATION

Loose cables can become caught in spokes, pedals, or the chain. This may lead to serious accidents and injuries.

- Install the charging cable close to the frame.
- Install the discharging cable so that it does not restrict movements while riding.

#### FULL SUSPENSION BICYCLES

In full suspension bicycles, there is the danger that the RangeExtender or discharge cable may become crushed in the spring deflection.

- Ensure that it is not crushed anywhere within the spring range.

### 3.2 ACTIVATE RANGEEXTENDER

#### OVERVIEW

The RangeExtender must be in active mode before use. You may need to activate the RangeExtender:

#### INSTRUCTIONS

- ▶ Press button.



The RangeExtender will be automatically activated when the discharge cable is connected.

If the RangeExtender is not in use, it will switch to passive mode after ten minutes.

### 3.3 CHARGE RANGEEXTENDER

#### AUXILIARY MATERIALS

- Adapter charging cable (from the cable kit)
- Original e-bike battery charger

#### INSTRUCTIONS

1. Connect the charger to the power supply. Connect the RangeExtender to the charger with the adapter charging cable.
  - ⇒ The RangeExtender's LED display indicates its charge status. (See 1.8)
2. **If all LEDs are off:** The RangeExtender is fully charged. Unplug the RangeExtender from the charger. Unplug the charger from the power supply.



#### MEMORY EFFECT

The RangeExtender does not have a memory effect. Therefore, you can charge it in any charge status without affecting its capacity.



### 3.4 DISPLAY CHARGE STATUS

#### INSTRUCTIONS

- ▶ Press the button.
  - ⇒ The LEDs indicate the charge status for 5 seconds. (See 1.8.)

### 3.5 MOUNT RANGEEXTENDER IN BOTTLE CAGE

#### SAFETY

 <b>WARNING</b>	
	<p>Incorrect installation may result in accidents: Loose cables can block moving components. Blocked wheels or brakes can lead to serious accidents.</p> <ul style="list-style-type: none"> <li>▶ Securely attach cable to fixed frame components.</li> </ul>

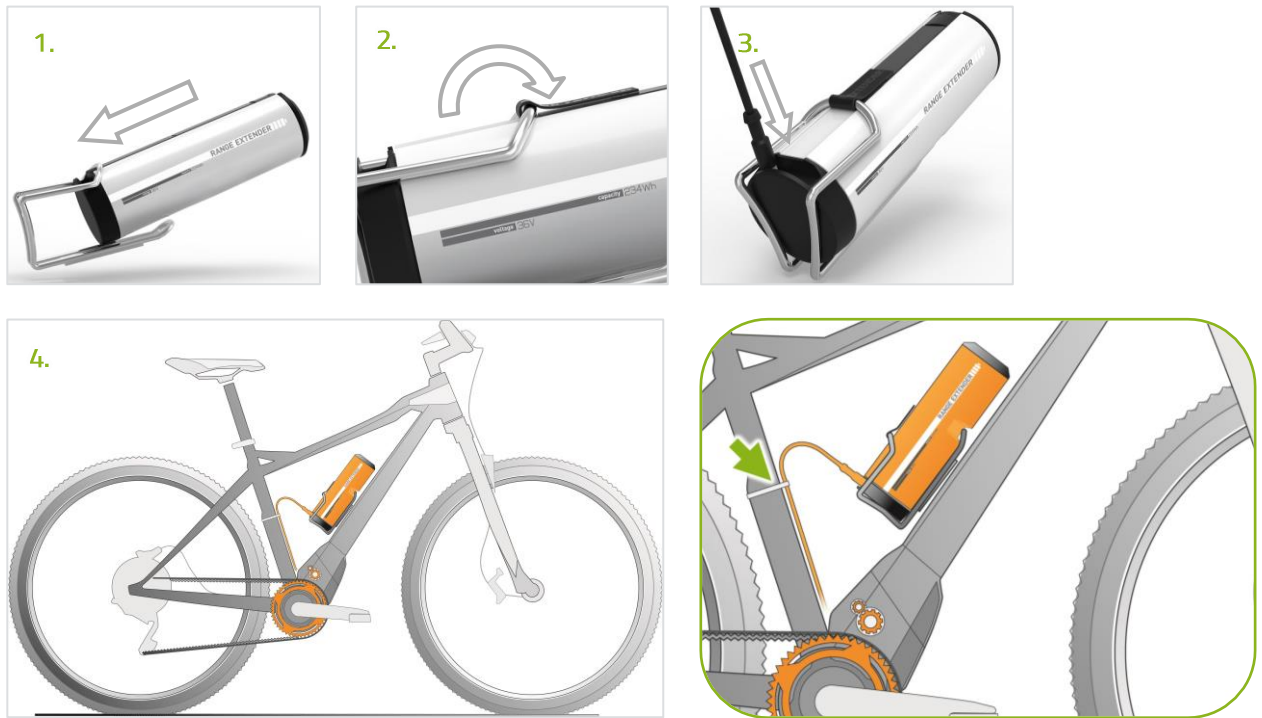


Figure 4: Installation with bottle cage

<b>⚠ WARNING</b>	
	<p>Danger of accidents caused by falling RangeExtender: If the RangeExtender falls in front of a wheel or another vehicle, this may cause a serious accident.</p> <ul style="list-style-type: none"> <li>▶ Firmly attach the RangeExtender in the bottle cage with its hook and loop strap.</li> <li>▶ Ensure the bottle cage is firmly attached and sufficiently stable.</li> </ul>

#### REQUIREMENTS

- A common bottle cage must be firmly installed on the e-bike.
- The e-bike battery must be installed.
- The e-bike is steady.

#### AUXILIARY MATERIALS

- Discharge cable (from the cable kit)
- Hook and loop strap (from the cable kit)

#### INSTRUCTIONS

See Figure 4: Installation with bottle cage.

1. Insert the RangeExtender into the bottle cage.
2. Firmly attach the RangeExtender to the bottle cage with the hook and loop strap.

3. Connect the RangeExtender and e-bike battery with the discharge cable.
4. Attach the discharge cable close to the e-bike frame using the discharge cable.

### 3.6 CHARGE E-BIKE BATTERY WITH RANGEEXTENDER

#### REQUIREMENTS

- The RangeExtender is charged.

#### AUXILIARY MATERIALS

- Discharge cable (from the cable kit)

#### INSTRUCTIONS

- ▶ Connect the RangeExtender and e-bike battery with the discharge cable.
  - ⇒ The e-bike battery indicates its charge status.
  - ⇒ The RangeExtender continuously displays its charge status.

### 3.7 CHECK BEFORE RIDING

- ▶ Check to ensure the RangeExtender is securely mounted.

- ▶ Check to ensure neither the RangeExtender nor the discharge cable affect movement while cycling.

### 3.8 TROUBLESHOOTING

If this section does not provide an appropriate solution for your problem, please contact the BMZ service department.

#### 3.8.1 ALL LEDS FLASHING

Possible cause	Solution
The protective circuit switches off the output voltage due to an error. Possible causes include: <ul style="list-style-type: none"> <li>■ Short circuit</li> <li>■ Voltage too high</li> <li>■ Current outside of tolerance</li> <li>■ Temperature outside of tolerance</li> </ul>	The protective circuit checks whether the error is still active every 30 seconds. Once the error has been corrected, the RangeExtender switches back to its previous status. If error continues: Contact BMZ service department.

#### 3.8.2 THE RANGEEXTENDER DOES NOT CHARGE

Possible cause	Solution
The RangeExtender is in passive mode	Press button.
No plug contact	Check plug connections, clean if necessary.
Adapter charging cable defective.	Exchange adapter charging cable.
Charger off / defective.	Switch on / exchange charger.

#### 3.8.3 THE RANGEEXTENDER DOES NOT CHARGE THE E-BIKE BATTERY

Possible cause	Solution
The RangeExtender is in passive mode	Press button.
The e-bike battery is not active.	Switch on e-bike battery (usually by pressing button on e-bike battery)
The RangeExtender battery is empty.	Charge RangeExtender.
Discharge cable defective.	Exchange discharge cable.
No plug contact	Check plug connections, clean if necessary.

### 3.9 RANGEEXTENDER MAINTENANCE

The RangeExtender is maintenance-free.

- ▶ If necessary, clean the RangeExtender with a dry clean cloth.
- ▶ Keep cable and RangeExtender contacts clean. In case of soiling, clean with a dry cloth and do not bend contacts.

## 4 STORAGE

Storing lithium-ion batteries empty can damage or destroy cells (deep discharge).

### ACHIEVING THE BEST POSSIBLE SERVICE LIFE

- Do not store the RangeExtender empty. A charging level of approx. 75 % is optimal.
- Only store the RangeExtender between -20 °C and 45 °C. A temperature of approx. 10 °C is optimal. (Humidity: 0 % to 80 %)
- Check charge status after three months and recharge if necessary.

## 5 DISPOSAL

### SAFETY

If lithium-ion batteries are not disposed of properly, fire or leaking hazardous materials may cause health problems.

### LEGAL REGULATIONS

Batteries may not be disposed of in household garbage. In the EU, you as a consumer are legally obligated to return used batteries. This return is free of charge.



### RETURN

Please return the RangeExtender to a collection point at the end of its service life. Always secure lithium-ion batteries by insulating the poles (for instance with tape) against short circuit. Collection points include:

- Manufacturer (BMZ Group)
- E-bike dealers (anywhere e-bike batteries are available)
- Municipal collection points (such as recycling depots)

### ENVIRONMENT

Batteries will be sent for recycling according to the electrochemical system they use by the collection points. Valuable raw materials will be recycled, and hazardous materials will be disposed of appropriately. Returning these materials makes a valuable contribution to protecting our environment.

## 6 FURTHER DIRECTORIES

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### 6.1 GLOSSARY

Term	Definition
-Active mode	Charging and discharging mode
Adapter charging cable	Cable between the original charger and the RangeExtender
User	Individual who uses the product
Discharge cable	Cable between the e-bike battery and RangeExtender
E-bike	Describes e-bikes, pedelecs, and S-pedelecs
E-bike battery	Original e-bike battery. Charged by the RangeExtender.
Hazard	Potential source of damage
Charge status	Current RangeExtender capacity
Original charger	Charger for your e-bike battery. Also charges the RangeExtender.
Passive mode	Standby mode with minimum self-discharge
RangeExtender™	Mobile charger for your e-bike battery
Damage	Physical injury or damage to the health of persons, or damage to property or the environment

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