



# BMZ Drive Systems V7

Operating Instructions



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## Addresses, identification and notes

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### Product identification

BMZ Drive Systems V7 comprising:

- Motor Art. No. 23084
- New-Style Display Art. No. 27937 or Sportive Display Art. No. 27938
- Battery UR-V7 Art. No. 29600 | 30900 | 31000 | 32900 | 34300 | 36984 | 37171 | 39600 | 40900
- Charger 10S Li-Ion Art. No. 24555-9 | 24555-11 | 31116-1 | 31116-2

Country of origin: Germany  
Code: CE

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### Document identification

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# 1 Motor

## 1.1 Safety guidelines

### WARNING

**There is a risk of danger, if the safety instructions are not observed.**

Non-observance of safety information and instructions can lead to an electrical shock, fire and/or serious injuries.

- ▶ Please observe all safety information and instructions both in these and in all other instructions included with the E-Bike.

- CAUTION: Risk of burns from touching the motor casing.
- CAUTION: Risk of injury if the E-Bike system is activated unintentionally. Please remove the rechargeable battery before working on the E-Bike (e.g. assembly, maintenance, working on the chain etc.), or transporting or storing it.
- CAUTION: Risk of injury when using the pushing aid without the wheels touching the floor. Only use the pushing aid when pushing the E-Bike.
- CAUTION: Please do not make any changes to your E-Bike. Never try to increase the performance capability of the E-bike system; otherwise, you could reduce the service life of the parts and risk damage to the E-Bike system and to the E-Bike. Also, any manipulation of the E-Bike system will invalidate the guarantee and warranty. Incorrect handling of the system also poses a risk to your safety and others on the road. If any unauthorised changes are made to the E-Bike system, there is a risk of high personal liability costs or even criminal proceedings, if the accident is a result of the manipulation.
- Observe all national regulations relating to the approval and use of E-Bikes.
- Never open the motor. This is maintenance-free and may only be repaired by qualified specialists and only using original spare parts. This retains the motor safety. If the motor is opened without authorisation, the warranty becomes invalid.
- All components of the E-Bike system and parts that are mounted to the motor (e.g. chain wheel, chain wheel bracket, pedals) may only be replaced with parts approved by the cycle manufacturer. This protects the motor from damage (e.g. from overloading).
- Read and observe the safety instructions and information in the operating instructions of the rechargeable battery and in the E-Bike operating instructions.
- Please keep these instructions for future reference.

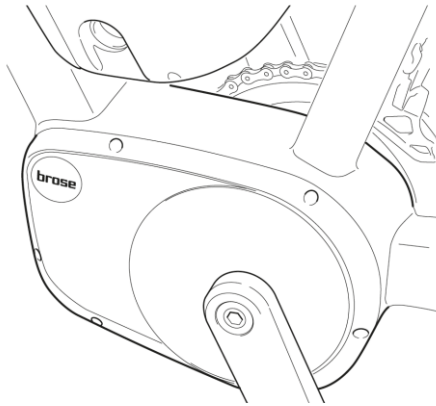
## 1.2 Intended use

The motor is only designed to drive your e-Bike and may not be used for other purposes.

### 1.3 Explanation of the figure

The illustrations are outlines only and details may vary on your E-Bike.

**Figure 1**  
Motor with design cover  
and mounted cranks



### 1.4 Operation

For more information about using the E-Bike, please refer to chapter 2.7.

**NOTE:**

The E-Bike system is only functional when the display is mounted.

### 1.5 Cycling and advice

**When does the E-Bike drive work?**

The BMZ E-Bike system provides electromotor support to the cyclist in a Pedal Electric Cycle (Pedelec). The support provided depends on the force applied by the cyclist onto the pedals. The E-Bike drive only provides support, if the cyclist is pedaling. This is independent of the support level.

**Shut-off at over 25 km/h**

The E-Bike drive switches off automatically at speeds in excess of 25 km/h. If the speed drops below 25 km/h, the support starts again automatically.

**Pushing aid**

Once exception is the pushing aid function that allows the E-bike to be pushed easily without turning the pedals at a speed of up to 6 km/h. The pedals may also turn when the pushing aid is activated.

**Cycling without support**

You can ride the E-Bike like a normal bike at any time by either switching off the E-Bike system or setting the support level to **Off** (see 2.7.2). The same applies when the rechargeable battery is empty.

**Familiarisation**

Take some time to familiarise yourself with your E-Bike system before you use it in normal road traffic. Test the various support levels until you feel safe handling this product. Before going on longer trips, familiarise yourself with how different parameters and ambient conditions impact on the range of your E-Bike.

**Motor setups**

The E-Bike system supports several motor setups. These are set individually for each bike model in cooperation with the bike manufacturers. You can obtain detailed information about your E-Bike's motor setup from your cycle manufacturer and your bicycle dealer.

**Influences on the range**

The range is affected by many factors such as:

- Support level: the higher the support level, the lower the range.

- Switching behaviour
- Type of tyres
- Tyre pressure
- Age, care and charging status of the rechargeable battery
- The route profile (gradients) and quality (surface)
- Weather conditions (e.g. oncoming wind, ambient temperature etc.)
- Weight of the E-Bike
- Load

#### Careful handling

Please observe the operating and storage temperature of the E-Bike components. Protect the motor, display and rechargeable battery from extreme temperatures (e.g. intensive sunshine without ventilating at the same time). The components (especially the rechargeable battery) can be damaged by extreme temperatures.

### 1.6 Maintenance and cleaning

Keep all components of the E-Bike clean, especially the contacts of the rechargeable battery and its bracket. Clean this carefully with a dry and soft cloth.

None of the components, including the motor, may be dipped into water or cleaned with a high-pressure device. Please contact an authorised dealer for servicing or repairs to the E-Bike.

### 1.7 Inspection

On reaching a mileage of 15,000 km, the drive belt needs to be replaced by a service centre authorised by BMZ.

You can obtain information about your responsible service centre from your bicycle dealer.

### 1.8 Transport

When transporting a complete E-Bike, please note the transport information pertaining to the rechargeable batteries (see 3.9).

### 1.9 Waste Disposal

Motor, display, rechargeable battery, speed sensor, accessories and packaging should be disposed of in an environmentally-compatible manner. Do not dispose of your E-Bike and its components in the household waste system.

In compliance with the European Directive 2012/19/EU electrical devices that are no longer serviceable, and in compliance with the European Directive 2006/66/EG faulty or spent rechargeable batteries/batteries, must be collected separately and disposed of in an environmentally-friendly manner.

Please hand in all spent rechargeable batteries and non-functional displays to an authorised bicycle dealer.

Only for EU countries





## 1.10 Technical data

Table 1  
Technical data motor

<b>Motor</b>	
<b>Art. No.</b>	#23084
<b>Dimensions (mm)</b>	213 x 150 x 128
<b>Weight</b>	3,400 g
<b>Rated voltage</b>	36 V DC
<b>Type of protection:</b>	IP56
<b>Max. torque</b>	90 N m
<b>Continuous rated power</b>	250 W
<b>Support up to</b>	25 km/h
<b>Working temperature range</b>	-10 ... 50 °C

## 2 Display

### 2.1 Safety guidelines

#### WARNING

**There is a risk of danger, if the safety instructions are not observed.**

Non-observance of safety information and instructions can lead to an electrical shock, fire and/or serious injuries.

- ▶ Please observe all safety information and instructions both in these and in all other instructions included with the E-Bike.

- CAUTION: Risk of injury if the E-Bike system is activated unintentionally. Please remove the rechargeable battery before working on the E-Bike (e.g. assembly, maintenance, working on the chain etc.), or transporting or storing it.
- CAUTION: Risk of injury when using the pushing aid without the wheels touching the floor. Only use the pushing aid when pushing the E-Bike.
- Please keep these instructions for future reference.

### 2.2 Intended use

The display and control unit is only intended for use with the BMZ E-Bike system. It serves to display driving and status-relevant information and to control the motor.

### 2.3 Explanation of the figures

All illustrations are outlines only and details may vary on your E-Bike.

### 2.4 Description

#### 2.4.1 Variants

##### Sportive Display

The compact Sportive Display is a display and control unit in one. It can be installed unobtrusively near the handle and is less susceptible to damage in case of a fall.

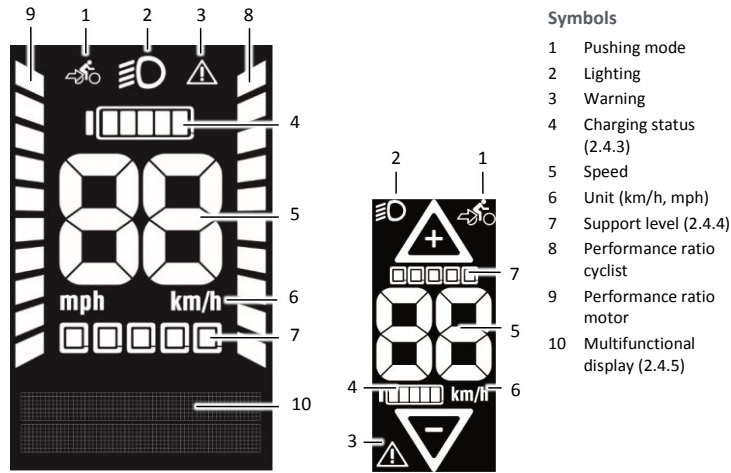
##### New-Style Display

The large New-Style display is easy to read and has additional functions. The system is controlled easily via the control unit near the handle.

#### 2.4.2 Explanation of symbol

The various displays have a similar design. The New-Style display also has a multifunctional display and a display that shows the ratios of the performance by the rider and that of the motor.

Figure 2  
Display symbols new style (left) and: Sportive (right)



### 2.4.3 Charging status display

The charging status of the rechargeable battery (4) is shown in five segments on the display. One segment corresponds to about 20% of the rechargeable battery capacity (see 3.6.3).

#### Emergency mode

If the charging status is < 20 %, the charging status display will begin to flash. If the charging status is < 5 %, the charging status display will disappear. In this state the motor support is switched off to ensure that the lights can be used for a further two hours.

Table 2  
Charging status display  
\* = flashes

during charging	during driving
0-19 %	100-80 %
20-39 %	79-60 %
40-59 %	59-40 %
60-79 %	39-20 %
80-99 %	19-11 %
100 %	<10-0 % Emergency mode, motor off

### 2.4.4 Support levels display

Table 3  
Support level display

Display	Support level
	off
	1 (minimum)
	2
	3 (maximum)

### 2.4.5 Multifunctional display

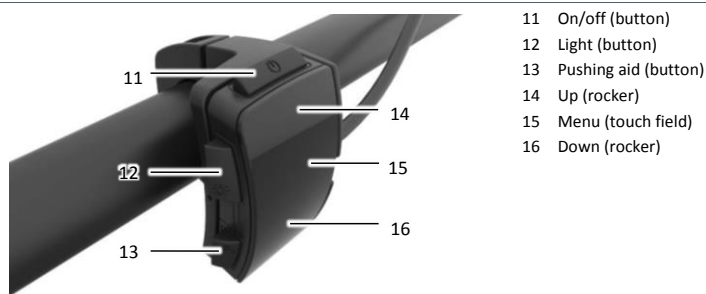
Table 4  
Multifunctional display

Key functions. In order to...	Unit
Time (Time of Day)	hh:mm (24 h or 12 h am/pm)
Tour dist. (Trip Distance)	km   mi
Tour kcal (Trip Calories)	kcal
Tour time (Trip Time)	hh:mm
Ø Speed (Avg. Speed)	km   mi
Max speed (Max-Speed)	km/h   mi/h
Tot. dist. (Total Distance)	km   mi
Tota. time (Total Time)	hh:mm

**NOTE:** Individual functions can be deactivated depending on the E-Bike model. You can obtain detailed information from your cycle manufacturer and your bicycle dealer.

### 2.4.6 Control elements

Figure 3  
Control elements



### 2.4.7 USB slot

This display has a micro USB slot (17) on the lower side. You can charge other devices, e.g. mobile phone, using a suitable USB cable.

Figure 4  
Rear side of Sportive Display



**NOTE:** The charging current is 0.5 amps. Observe the allowed charging currents of your devices.

## 2.5 Assembly

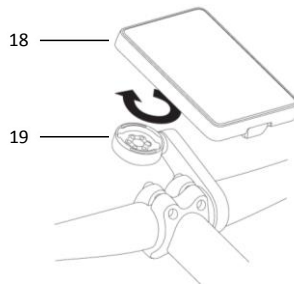
### 2.5.1 Mount the New-Style display

**Requirement** ✓ Motor and battery are mounted.

**Tools**

- Allen 2.5 mm
- Allen 3 mm
- Intermediate cable

**Figure 5**  
Mount the New-Style display



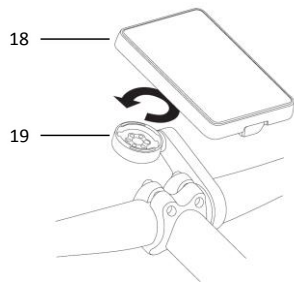
- 18 New-Style Display
- 19 Display bracket

**Instructions**

1. Mount the control unit within reach on the handlebars. (allen 2.5 mm)
2. Mount the display bracket in the centre of the handlebar (allen 3 mm).
3. Place the New-Style display into the bracket at an angle of 45° to the left and the twist until straight.
4. Connect the display to the motor via an intermediate cable.

**2.5.2 Remove New-Style display**

**Figure 6**  
Remove the New-Style display



- 18 New-Style Display
- 19 Display bracket

1. Disconnect the display from the intermediate cable.
2. Turn the New-Style display by 45° to the right and remove by lifting upwards.

**2.5.3 Mount the Sportive Display****Requirement**

- ✓ Motor and battery are mounted.

**Tools**

- Allen screwdriver 2.5 mm

**Instructions**

1. Mount the Sportive Display close to the left handle.
2. Connect the connector to the motor.

**2.6 Commissioning**

You do not need to take any further steps to commission the display after mounting it. The display is operational as soon as it has been fitted into the bracket.

**NOTE:**

It is only fully functional if the speed sensor and the cables have been mounted correctly and the rechargeable battery is adequately charged.

## 2.7 Operation

### 2.7.1 Switching on the E-Bike system

- ▶ Press the LED button on the rechargeable battery.
  - ⇒ *The display unit activates automatically.*
  - ⇒ *The E-Bike system is now operational.*

### 2.7.2 Switching off the E-Bike system

**Standby mode**

If the bike is not moved, the display unit and motor switch to standby mode. However, this can also be activated manually.

If you only want to park your E-Bike briefly, you can switch to the **standby mode** as follows:

- ▶ Press the On/Off button briefly
  - ⇒ *The display is switched off.*
  - ⇒ *The rechargeable battery remains in the Active Mode for two hours (see 3.7.2).*

As soon as you move the E-Bike again, the display and motor are reactivated and the E-Bike system is available again. After two hours in the **Active Mode** the rechargeable battery switches to the **Deep Sleep mode** (see 3.7.2).

**Complete deactivation**

There are two ways of completely deactivating the E-Bike system:

- ▶ Press the On/Off button longer (> 3 s).

OR

- ▶ Press the LED button on the rechargeable battery longer (> 3 s).
  - ⇒ *The display unit, motor and rechargeable battery will be switched off completely.*

**NOTE:**

After completely switching off the system, it needs to be started again via the LED button on the rechargeable battery to reactivate it (see 3.7.1).

**Scott E-Bikes**

Scott E-Bikes can only be switched off via the rechargeable battery.

### 2.7.3 Change support level

- ▶ Press rocker **Up** to increase the support level.
- ▶ Press rocker **Down** to decrease the support level.

### 2.7.4 Activate pushing aid

- ▶ Keep the pushing aid button pressed (min. 3 s).
- ▶ To finish, release button.

### 2.7.5 Switch the lights on and off

- ▶ Press the Light button briefly.

**Instructions****2.7.6 Switchover the multifunctional display**

- ▶ Touch the touch field Menu

**Overview****2.7.7 Change the settings on the New-Style Display**

You can make the following settings:

Table 5  
Settings New-Style  
Display

Range	Value
<b>Reset trip</b>	Reset all values for driving time, calorie consumption, average speed to 0
<b>Reset all</b>	Reset all values including total trip distance and time to 0
<b>Date</b>	DD/MM/YY
<b>Time format</b>	24/12
<b>Time</b>	hh/mm
<b>Language</b>	German/English
<b>Metric/Anglo-American</b>	km/mi

**Instructions**

1. Press the **Light** button for three seconds.
2. Press the **Menu** touch field as often as required until the required menu is displayed.
3. Set the values with the rocker **Up** and **Down**.
4. Touch the touch field **Menu** to confirm.

**NOTE:**

The settings menu can be quitted by pressing the **Menu** touch field in the last area. The settings menu can be quit immediately by pressing the **Light** button.

**2.7.8 Change the settings on the Sportive Display**

The Sportive Display can show miles or kilometres.

**Overview****Instructions**

1. Press the **Light** button for three seconds.
2. Set the unit with the rocker **Up** and **Down**.
3. Press the **Light** button for three seconds to confirm.

**2.7.9 Charge external devices via USB.**

- ▶ Place the display unit into the bracket.
- ▶ Open the flap on the USB interface.
- ▶ Use a suitable USB cable to connect the USB interface with the respective end device.

⇒ "CHARG" is shown briefly in the display.

**2.8 Maintenance and cleaning**

Keep all components of the E-Bike clean, especially the contacts of the rechargeable battery and its bracket. Clean them carefully with a dry and soft cloth.

None of the components, including the motor, may be dipped into water or cleaned with a high-pressure device.

Please contact an authorised dealer for servicing or repairs to the E-Bike.

## 2.9 Waste Disposal

Motor, display, rechargeable battery, speed sensor, accessories and packaging should be disposed of in an environmentally-compatible manner. Do not dispose of your E-Bike and its components in the household waste system.

Only for EU countries



In compliance with the European Directive 2012/19/EU electrical devices that are no longer serviceable, and in compliance with the European Directive 2006/66/EG faulty or spent rechargeable batteries/batteries, must be collected separately and disposed of in an environmentally-friendly manner.

Please hand in all spent rechargeable batteries and non-functional displays to an authorised bicycle dealer.

## 2.10 Technical data

Table 6  
Technical data display

New-Style display (#27937)	
<b>Dimensions (mm)</b>	Display: 44 x 62.5 x 8 Control unit: 18 x 46 x 19.75 Display range: 38 x 50
<b>Weight</b>	Display unit: 67 g
<b>Rated voltage</b>	36 V DC
<b>Type of protection:</b>	IP65
<b>Working temperature range</b>	-10 ... 60 °C
<b>Storage temperature range</b>	-20 ... 85 °C
<b>USB charging voltage</b>	5 V DC
<b>USB charging current max.</b>	500 mA

Table 7  
Technical data lighting

Lighting	
<b>Rated voltage</b>	6 V
<b>Rated current max.*</b>	500 mA
<b>Rated output*</b>	Front light: 2.6 W Rear light: 0.6 W

The rated current and the rated output of the lighting may vary depending on the rechargeable battery that is used. You can obtain detailed information from your cycle manufacturer and your bicycle dealer.



## 3 Rechargeable battery

### 3.1 Safety guidelines

#### WARNING

**There is a risk of danger, if the safety instructions are not observed.**

Non-observance of safety information and instructions can lead to an electrical shock, fire and/or serious injuries.

Injuries or damage is also possible as a result of dangerous reactions of chemical substances that leak from the rechargeable battery resulting from non-observance of the safety instructions.

- ▶ Please observe all safety information and instructions both in these and in all other instructions included with the E-Bike.

- CAUTION: Risk of injury if the E-Bike system is activated unintentionally. Before working on the E-Bike (e.g. assembly, maintenance, working on the chain etc.), or transporting or storing it, please remove the rechargeable battery from the E-Bike.
- CAUTION: Risk of injury when using the pushing aid without the wheels touching the floor. Only use the pushing aid when pushing the E-Bike.
- Risk of short circuits! Do not open, dismantle or chop up the rechargeable battery. Opening the rechargeable battery will invalidate the warranty.
- Risk of explosion! Protect the rechargeable battery from heat (e.g. also from permanent exposure to sunlight), fire and submersion into water.
- Temperatures above 158°F (70°C) may lead to outflow and bursting of the battery.
- Risk of burns and fire caused by short circuits! Keep small metal objects (e.g. paper clips, nails, screws, keys etc.) away from the rechargeable battery. These could bridge the contacts. All warranty claims toward BMZ will become invalid in case of short circuit damage resulting from this.
- Do not expose the rechargeable battery to hard mechanical impacts. There is a risk of damage to the rechargeable battery.
- The risk of short circuits and fire or an electrical shock is higher, if a damaged rechargeable battery is used. Never continue to use a faulty or damaged rechargeable battery.
- Risk of fire due to use of other chargers. Only charge the rechargeable battery with the charger supplied with the E-Bike system.
- Only use the rechargeable battery in conjunction with E-Bikes with the original BMZ E-Bike system. This is the only way to protect the rechargeable battery from dangerous overloading.
- Risk of injury or risk if other rechargeable batteries are used: only use rechargeable batteries approved by the bike manufacturer for your E-Bike. The warranty and liability will become invalid if other rechargeable batteries are used.
- Keep the battery away from children and persons with reduced physical, sensory or mental abilities or with a lack of experience and knowledge.

- Always keep the rechargeable battery dry and clean.
- Always keep the contacts of the rechargeable battery clean. If they are soiled, clean them with a dry cloth.
- Avoid unnecessary charging. Do not charge the rechargeable battery for a longer period, if you are not going to use it.
- If possible, disconnect the battery from the e-bike and the charger when not in use.
- Avoid large temperature changes.
- Keep this manual for future reference.
- Never leave the rechargeable battery and charger unattended during charging.

### 3.2 First aid measures

Symptoms caused by combustion gases or leaking fluids require medical attention.

**After inhaling**

Leave area immediately. Supply fresh air. See a doctor.

**After skin contact**

Remove solid particles immediately. Rinse affected areas with plenty of water (at least 15 minutes). Take off contaminated clothing immediately. See a doctor.

**After eye contact**

Wash eyes carefully with plenty of water (at least 15 minutes). Protect unaffected eye. See a doctor.

**After swallowing**

Drink plenty of milk or water and induce vomiting. See a doctor.

### 3.3 Intended use

The rechargeable battery is designed and intended for use in a BMZ E-Bike system.

Table 8  
Intended chargers

Battery Art. No. ↓	Charger Art. No. (charging current)			
	24555-9 (4 A)	31116-1 (5 A)	24555-11 (4 A)	31116-2 (5 A)
29600	✓	✓		
30900	✓	✓		
31000	✓	✓		
32900			✓	✓
34300	✓	✓		
36984			✓	✓
37171			✓	✓
39600			✓	✓
40900			✓	✓

**Intended e-bikes and components**

The battery must only be used with bikes/components in compliance with the bike categories 1 and 2 according to the international standard (ASTM F2043-13 Standard Classification for Bicycle Usage):

- **Category 1:** This is a set of conditions for the operation of a bicycle/component on a regular paved surface where the tires are intended to maintain ground contact.
- **Category 2:** This is a set of conditions for the operation of a bicycle that includes Condition 1 as well as unpaved and gravel roads and trails with moderate grades. In this set of conditions, contact with irregular terrain and loss of tire contact with the ground may occur. Drops are intended to be limited to 15 cm (6") or less.

If a bicycle/component is used in a higher category than defined, the stress on its materials will increase. This results in a shortened life span of all components and, in extreme cases, can lead to the failure of important components. This means an increased danger of accidents and injury.

### 3.4 Explanation of the figures

All illustrations are outlines only and serve as examples. The details may vary from your own E-Bike because the BMZ E-Bike system can be combined with a number of different rechargeable battery variants. You can obtain detailed information about the rechargeable battery used in your E-Bike from your cycle manufacturer and your bicycle dealer.

### 3.5 Assembly

#### 3.5.1 Insertion and removal of the rechargeable battery

Figure 7  
Insertion of the  
rechargeable battery



The BMZ E-Bike system can be combined with a number of different rechargeable battery variants. The assembly and removal of the rechargeable battery depends on the rechargeable battery model used. You can obtain detailed information about this from your cycle manufacturer and your bicycle dealer.

**NOTE:**

Always switch the rechargeable battery off before placing it into or removing it from the bracket.

### 3.5.2 Locking and unlocking the rechargeable battery latch

Figure 8  
Rechargeable battery  
latch



The various assembly variants of the rechargeable battery require various rechargeable battery latch designs. You can obtain detailed information about locking and unlocking the rechargeable battery from your cycle manufacturer and your bicycle dealer.

## 3.6 Commissioning

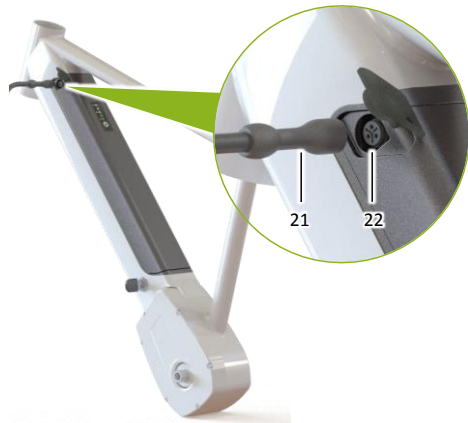
### 3.6.1 Check the rechargeable battery before using it for the first time

The rechargeable battery is partially charged when delivered. Therefore, test the rechargeable battery before you charge it for the first time or use it with your E-Bike.

- ▶ Activate the rechargeable battery by pressing the LED button.
  - ⇒ *The charging status display should now switch from 'empty' to 'full' and then the current display status is shown for approx. 4 seconds.*
  - ⇒ *If no LED on the charging status display shines or if the rechargeable battery cannot be activated, it may be possible that the cell voltage is too low and the rechargeable battery needs to be charged.*
  - ⇒ *If at least one but not all LEDs of the charging status display shine, the rechargeable battery should be fully charged before it is used for the first time.*

### 3.6.2 Charging the rechargeable battery

Figure 9  
Charging the  
rechargeable battery  
(example)



21 Charging connector  
22 Charging connection

Only use the charger supplied with your E-Bike. Only this charger matches your rechargeable battery.

**NOTE:**

The rechargeable battery is partially charged when delivered (approx. 30-50 %). To guarantee the full performance of the rechargeable battery, charge it completely with the charger before it is used for the first time (see also, chapter 0).

The rechargeable battery can be charged separately or on the E-Bike without reducing the service life.

- ▶ Connect the charger to the mains supply.
  - ⇒ *The LED status display of the charger should now be active (see 4.5.3).*

**Rechargeable battery not on the E-Bike**

- ▶ Connect the charger connector to the charging socket of the rechargeable battery.
  - ⇒ *Charging begins.*

**NOTE:**

Some rechargeable batteries may have two charging connections. It does not matter which of the two connections is used for the charging process.

**Rechargeable battery on the E-Bike**

- ▶ Connect the charger connector to the free charging socket of the rechargeable battery.
  - ⇒ *Charging begins.*

**NOTE:**

Interrupting the charging process does not damage the rechargeable battery.

**NOTE:**

If the rechargeable battery cannot be charged, the cell voltage has undercut the critical value of 2V per cell and the rechargeable battery is faulty.

**NOTE:**

Do not charge a damaged rechargeable battery and do not use it. Please contact an authorised dealer.

**NOTE:**

The rechargeable battery reaches its maximum service life, if it is charged in ambient temperatures between 50 and 86 °F (10 and 30 °C).

### 3.6.3 Charging status display

Figure 10  
Charging status display



**When cycling and when the rechargeable battery is disconnected**

The five LEDs on the charging status display (23) show the charging status of the rechargeable battery after pressing the LED button (24). Each LED equates to about 20% capacity. All five LEDs will light up when the rechargeable battery is fully charged. The charging status of the activated rechargeable battery is also shown on the display of the display unit (see 2.4.3). If the capacity of the rechargeable battery lies below 10 %, the first LED on the charging status display flashes.

**During charging**

The rechargeable battery can be charged with and without the display unit. Without a display unit, the charger can only be monitored on the charging status display. The display unit can be removed during the charging process or can even be positioned after the start of the charging process. The charging status is shown with the charging status display on the rechargeable battery and via the bar on the display (4, Figure 2, page 11). During the charging process, the LEDs of the charging status display on the rechargeable battery shine. Each LED that shines permanently corresponds to about 20% of the capacity. The flashing LED shows the charging of the next 20 %.

During the charging process, the charging status display is presented as follows:

Table 9  
Charging status display on the rechargeable battery

LEDs	Charging status
*○○○○	0-19 %
●*○○○	20-39 %
●●*○○	40-59 %
●●●*○	60-79 %
●●●●*	80-99 %
●●●●●	100 %

## 3.7 Operation

### 3.7.1 Switch rechargeable battery on and off

**Switching on**

One way of switching on the E-Bike system is to switch on the rechargeable battery.

- ▶ Press the LED button on the rechargeable battery (see Figure 8, page 20).
  - ⇒ *The LEDs of the charging status display shine briefly and then show the current display status for approx. 4 seconds.*

**NOTE:**

If the capacity of the rechargeable battery lies below 10 %, only the first LED on the charging status display flashes (21).

**Switching off**

- ▶ To switch off the rechargeable battery, press the LED button for > 3 seconds (see Figure 8, page 20).
  - ⇒ *The LEDs of the charging status display (23) go off.*
  - ⇒ *The E-Bike system is also switched off at the same time.*

**3.7.2 Operating modes of the rechargeable battery****Active Mode**

Once it is switched on, the rechargeable battery is in **Active Mode**. If no further action is taken (operation or moving the E-Bike), it remains in **Active Mode** for two hours.

The **Active Mode** is activated by pressing the LED button (24), by charging the rechargeable battery or placing the rechargeable battery into the E-Bike.

**Deep Sleep Mode**

To minimise the system's internal consumption, the rechargeable battery automatically switches to the **Deep Sleep Mode** after 2 hours in **Active Mode**, if there is no activity and if the display unit is switched off. The **Deep Sleep Mode** is also activated if the LED button (24) or the On/off button of the display unit is pressed for at least three seconds or if the rechargeable battery is not in the E-Bike for more than 30 seconds.

**3.8 Maintenance, cleaning and storage****Cleaning**

Keep the rechargeable battery clean. Clean it carefully with a dry and soft cloth. The rechargeable battery may not be dipped into water or cleaned with a water jet. If the rechargeable battery no longer functions, please contact an authorised dealer. Only place the rechargeable battery on a clean surface. In particular, avoid soiling on the charging connections and the contacts. Clean dirty or corroded contacts with a mild cleaning agent or penetrating oil and protect them with battery terminal grease.

**Service life**

The service life of the rechargeable battery can be extended if it is maintained and, in particular, stored in the right conditions.

- Temperature: 50...77 °F (10...25 °C)
- Air humidity: 0-80 %
- Charging status: approx. 50 %

As the rechargeable battery gets older, its capacity will decrease, even if it is well kept. If the operating time is much shorter after charging, this indicates that the rechargeable battery is spent. It should be replaced.

**Storage**

Store the battery in a dry place away from open flames and food.

After about three months in storage, check the charging status of the rechargeable battery and charge it up to about 50 % if necessary.

**3.9 Transport**

The battery must be transported as dangerous goods. Only personnel may transport the battery; a safety instruction according to UN-T 3480 is required.

The rechargeable battery may only be sent in hazardous good packaging bearing the relevant warning information.

Please contact an authorised dealer, if you have any questions about transportation. You can also obtain suitable transport packaging from your dealer.

### 3.10 Waste Disposal

Motor, display, rechargeable battery, speed sensor, accessories and packaging should be disposed of in an environmentally-compatible manner. Do not dispose of your E-Bike and its components in the household waste system.

Only for EU countries



In compliance with the European Directive 2012/19/EU electrical devices that are no longer serviceable, and in compliance with the European Directive 2006/66/EG faulty or spent rechargeable batteries/batteries, must be collected separately and disposed of in an environmentally-friendly manner.

Please hand in all spent rechargeable batteries and non-functional displays to an authorised bicycle dealer.

### 3.11 Technical data

Table 10  
Technical data battery

Art. No.	All UR-V7
<b>Voltage (rated)</b>	36 V
<b>Capacity</b>	13.8 Ah
<b>Energy</b>	496.8 Wh
<b>Discharge current (rated)</b>	15 A (constant) 25 A (peak)
<b>Dimensions</b>	17.4 x 3.23 x 2.80 [inch] (443 x 82 x 71 [mm])
<b>Weight</b>	Approx. 6.482 lbs (2940 g)
<b>Temperature range biking</b>	-4...140°F (-20...60°C)
<b>Temperature range charging</b>	32...113°F (0...45°C)
<b>Temperature range storing</b>	Max: -4...113°F (-20...45°C) Recommended: 50...77°F (10...25°C)



Figure 11  
Certification of  
Conformity (1/2)

### 3.12 Conformity







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<h3>EC Certification of Conformity</h3>		
<b>Company:</b>	<b>BMZ GmbH</b>	
<b>Address:</b>	<b>Am Sportplatz 28 63791 Karlstein</b>	
<b>Product:</b>	<b>Li-ion Battery</b>	
<b>Designation:</b>	<b>10S4P INR18650-35E 36V 13.8Ah 496.8Wh</b>	
<b>Item no.:</b>	<b>39600-00, 39600-01, 40900-01, 40900-04, 40900-05, 40900-06, 31000-00, 36984-00, 37171-00</b>	
We confirm that the designated product corresponds to the substantial requirements of the following European guidelines:		The conformity of the product with the guidelines is proven by the complete compliance to the following mentioned harmonized and not harmonized standards:
<b>2006/66/EC Battery Directive</b> Directive of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators and waste batteries and accumulators		
<b>2011/65/EU RoHS Directive</b> Directive of the European Parliament and of the Council of 6 June 2011 on the restriction of the use of Certain hazardous substances in electrical and electronic equipment		
<b>EN 62133:2003</b> Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications:		
<b>2006/95/EC Low Voltage Directive</b> Guideline of the European Parliament and of the Council to adjust the legislation of the member states concerning electrical equipment for the use within certain voltage limits		<b>EN 60335-1:2012</b> <b>EN 62233:2008 +Cor.1:2009</b>
<b>2004/108/EC EMC Directive</b> Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004 on the approximation of the laws of the member states relating to electromagnetic compatibility and repealing Directive 89/336/EEC		<b>EN 55014-1:2012</b> <b>EN 55014-2:2009</b> <b>EN 61000-4-2:2009</b> <b>EN 61000-4-3:2011</b> <b>EN 61000-4-4:2012</b> <b>EN 61000-4-5:2007</b> <b>EN 61000-4-6:2012</b> <b>EN 61000-4-11:2005</b> <b>EN 61000-4-12:2007</b>
Karlstein am Main, 05.12.2017		
 Sven Bauer, Managing Director		 I.V. Dirk Oestreich, Director R&D
This declaration certifies compliance with the above mentioned directives but does not include a property assurance.		
<b>Geschäftsführer</b> HRB-Nr. 5899 Aschaffenburg Commerzbank Sparkasse Aschaffenburg Deutsche Bank	<b>Sven Bauer</b> St. Nr.: 12250444 BIC: COBADEFF795 BIC: BYLADEM1ASA BIC: DEUTDEFF308	Ust.-ID-Nr.: DE 611770243 IBAN DE 35795400490105770200 IBAN DE 7179550000240004283 IBAN DE 85508700650010501500
		BLZ 79540049 Kto. 1057702 BLZ 79550000 Kto. 240004283 BLZ 50870005 Kto. 010501500

Figure 12  
Certification of  
Conformity (2/2)

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<p><b>EC Certification of Conformity</b></p>		
<b>Company:</b>	<b>BMZ GmbH</b>	
<b>Address:</b>	<b>Am Sportplatz 28 63791 Karlstein</b>	
<b>Product:</b>	<b>Li-ion Battery</b>	
<b>Designation:</b>	<b>10S4P NCR18650GA 36V 13.8Ah 496.8Wh</b>	
<b>Item no.:</b>	<b>29600-00, 30900-01, 30900-03, 30900-04, 30900-05, 31700-00, 32900-00</b>	
<p>We confirm that the designated product corresponds to the substantial requirements of the following European guidelines:</p>		<p>The conformity of the product with the guidelines is proven by the complete compliance to the following mentioned harmonized and not harmonized standards:</p>
<p><b>2006/66/EC Battery Directive</b> Directive of the European Parliament and of the Council of 6 September 2006 on batteries and accumulators and waste batteries and accumulators</p>		
<p><b>2011/65/EU RoHS Directive</b> Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of Certain hazardous substances in electrical and electronic equipment</p>		
<p><b>EN 62133:2003</b> Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications:</p>		
<p><b>2006/95/EC Low Voltage Directive</b> Guideline of the European Parliament and of the Council to adjust the legislation of the member states concerning electrical equipment for the use within certain voltage limits.</p>		<p><b>EN 60335-1:2012</b> <b>EN 62233:2008 +Cor.1:2009</b></p>
<p><b>2004/108/EC EMC Directive</b> Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004 on the approximation of the laws of the member states relating to electromagnetic compatibility and repealing Directive 89/336/EEC</p>		<p><b>EN 55014-1:2012</b> <b>EN 55014-2:2009</b> <b>EN 61000-4-2:2009</b> <b>EN 61000-4-3:2011</b> <b>EN 61000-4-4:2012</b> <b>EN 61000-4-5:2007</b> <b>EN 61000-4-6:2012</b> <b>EN 61000-4-11:2005</b> <b>EN 61000-4-12:2007</b></p>
<p>Karlstein am Main, 05.12.2017</p>		
<p> Sven Bauer, Managing Director</p>		<p> I.V. Dirk Oestreich, Director R&amp;D</p>
<p>This declaration certifies compliance with the above mentioned directives but does not include a property assurance.</p>		
<p><b>Geschäftsführer</b> HRB-Nr. 5890 Aschaffenburg Commerzbank Sparkasse Aschaffenburg Deutsche Bank</p>	<p><b>Sven Bauer</b> St. Nr.: 12250444 BIC: COBADE33 BIC: BYLADEM1ASA BIC: DEUTDEFF508</p>	<p>Ust.-ID-Nr.: DE 611770243 IBAN DE 327540048103770200 IBAN DE 7179550000240004283 IBAN DE 8550870005010501500</p> <p>BLZ 79540049 BLZ 79550000 BLZ 50870005</p> <p>Kto: 1057702 Kto: 240004283 Kto: 010501500</p>

## 4 Charger

### 4.1 Safety guidelines

#### WARNING

**There is a risk of danger, if the safety instructions are not observed.**

Non-observance of safety information and instructions can lead to an electrical shock, fire and/or serious injuries.

- ▶ Please observe all safety information and instructions both in these and in all other instructions included with the E-Bike.

- Risk of an electrical shock if penetrated by water: the charger should never be exposed to excessive moisture (e.g. rain, snow etc.).
- Risk of fire and explosion if the wrong batteries are charged. Only use the charger supplied for the rechargeable battery in your BMZ E-Bike system. The rechargeable battery voltage and charging voltage of the charger must match.
- Risk of electrical shock caused by dirt: always keep the charger clean.
- Use the charger only in dry environments.
- There is a higher risk of an electrical shock from damaged chargers, cables and connectors: always check the charger, cable and connector before use. If you establish any damage, do not use the charger under any circumstances. Do not open the charger and only allow it to be repaired by qualified specialists and only using original spare parts.
- Risk of fire if charger overheats during charging: do not place the charger on a flammable surface (e.g. paper, textiles etc.) or operate it in a flammable environment.
- Risk of misuse and injuries: Children and persons that, because of their physical, sensory or intellectual capabilities, or because of their lack of experience or knowledge, are incapable of using the charger safely, must not use this equipment without the supervision or guidance of a responsible person.
- Never leave the rechargeable battery and charger unattended during charging.
- Please keep these instructions for future reference.
- Do not replace the mains cable. There is a risk of fire and explosion.

### 4.2 Intended use

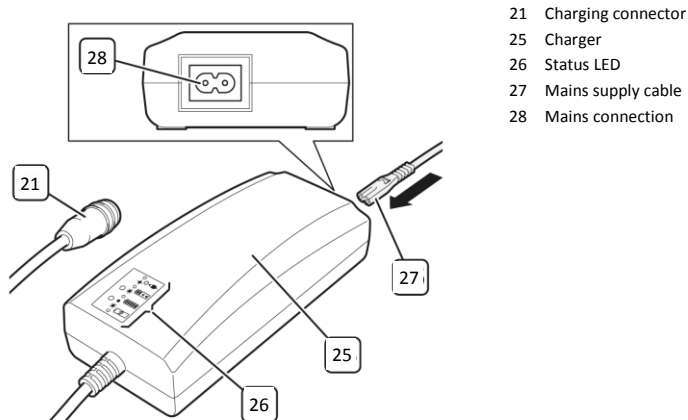
The charger may only be used to charge the rechargeable batteries supplied with the E-Bike.

### 4.3 Explanation of the figures

All illustrations are outlines only and serve as examples. The details may vary from your own E-Bike because the BMZ E-Bike system can be combined with a number of different

chargers. You can obtain detailed information about the charger supplied with your E-Bike from your cycle manufacturer and your bicycle dealer.

Figure 13  
Charger



## 4.4 Commissioning

### 4.4.1 Connect the charger to the mains supply.

**NOTE:**

Check mains voltage! The voltage of the power source must correspond to the details on the type plate of the charger.

1. Connect the mains connection cable to the charger.
2. Insert the mains supply cable into the socket.
  - ⇒ *The LED status display of the charger should now be active.*
  - ⇒ *The charger is now operational.*

## 4.5 Operation

### 4.5.1 Charging the rechargeable battery

Only charge the rechargeable battery in compliance with all safety instructions.

**Removed rechargeable battery**

For removed rechargeable battery:

1. Switch off rechargeable battery (see 3.7.1).
2. Remove rechargeable battery from the bracket on the E-Bike.
 

**NOTE:** Only place the rechargeable battery on a clean surface. In particular, avoid soiling on the charging connections and the contacts.
3. Insert the charging connector of the charger into a matching charging slot on the rechargeable battery.
  - ⇒ *Charging begins.*

**Rechargeable battery on the E-Bike**

Charging the rechargeable battery on the E-Bike

See Figure 9, page 21.

1. Switch off rechargeable battery
2. Insert the charger connector into the free charging slot.

⇒ *Charging begins.*

**NOTE:**

In particular, avoid soiling on the charging connections and the contacts.

#### 4.5.2 Charging process

Charging begins automatically as soon as the charger is connected to the rechargeable battery and the mains supply.

The rechargeable battery can be charged with and without the display unit. Without a display unit, the charger can only be monitored on the charging status display. The display unit can be removed during the charging process or can even be positioned after the start of the charging process. The charging status is shown with the charging status display on the rechargeable battery and via the bar on the display unit. During the charging process, the LEDs of the charging status display on the rechargeable battery shine (see 3.6.3).

**NOTE:**

Be careful, if you touch the charger during charging. It may become very hot, especially when ambient temperatures are high.

Once the rechargeable battery is completely charged, the LEDs will go out. The charging process is completed.

1. Disconnect the charger from the mains supply.
2. Disconnect the rechargeable battery from the charger.

⇒ *Then the rechargeable battery switches itself off.*

If, after charging, the rechargeable battery is not removed from the charger and the charger is still connected to the mains supply, it will switch on again after a few hours, check the charging status of the rechargeable battery and may start charging again if necessary.

#### 4.5.3 LED status displays

Table 11  
LED status displays  
charger

	Art. No. 31116-[...] (5-A-charger) Art. No. 24555-[...] (4-A-charger)
Standby	Green flashes slowly.
Charging	Green flashes.
Battery full / trickle charging	Green shines.
Error	Red flashes.

## 4.6 Maintenance and cleaning

If the charger fails, please contact an authorised dealer.

Use a soft dry cloth to clean the charger. Do not use water or other cleaning fluids!

## 4.7 Waste Disposal

The charger, accessories and packaging should be disposed of in an environmentally-compatible manner. Do not dispose of the charger in the household waste system!

## Only for EU countries



In compliance with the European Directive 2012/19/EU electrical devices that are no longer serviceable, and in compliance with the European Directive 2006/66/EG faulty or spent rechargeable batteries/batteries, must be collected separately and disposed of in an environmentally-friendly manner.

#### 4.8 Technical data

Table 12  
Technical data chargers

	Art. No. 31116-[...] (5-A-charger)	Art. No. 24555-[...] (4-A-charger)
<b>Input voltage</b>	100 ... 240 VAC   50 ... 60 Hz	230 VAC -10%+15%   50 Hz
<b>Output voltage (idle)</b>	0-42 VDC	32 VDC
<b>Output voltage (rated)</b>	36 VDC	36 VDC
<b>Power consumption (idle)</b>	ca. 5,1 W	<1 W
<b>Power consumption (rated)</b>	ca. 250 W	ca. 185 W
<b>End-of-charge voltage</b>	42 VDC	42 VDC
<b>Output current (rated)</b>	5 A	4 A
<b>Dimensions</b>	7.01 x 3.94 x 1.97 [inch] 178 x 100 x 50 [mm]	8.11 x 3.70 x 2.32 [inch] 206 x 94 x 59 [mm]
<b>Weight incl. accessories</b>	2.408 lbs (1092 g)	1.70 lbs (770 g)
<b>Temperature range operation</b>	32...113 °F (0 ... 45°C)	32...104 °F (0 ... 40 °C)
<b>Temperature range storage</b>	-13...158 °F (-25 ... 70°C)	-4...158 °F (-20 ... 70 °C)

Figure 14  
Certification of  
Conformity charger art.  
no. 31116-1

## 4.9 Conformity





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<h3>EG-Konformitätserklärung</h3>		
<b>Firma:</b>	<b>BMZ GmbH</b>	
<b>Anschrift:</b>	<b>Am Sportplatz 28 63791 Karlstein</b>	
<b>Produkt:</b>	<b>Ladegerät</b>	
<b>Bezeichnung:</b>	<b>Ladegerät Li-Ion 10S 42.0V 5.0A 120V 60HZ</b>	
<b>Artikel-Nr. BMZ:</b>	<b>31116-1</b>	
<p>Für das bezeichnete Produkt wird bestätigt, dass es den wesentlichen Anforderungen der folgenden Europäischen Richtlinien und Normen entspricht.</p>		
<p>Die Übereinstimmung des Produktes mit den Richtlinien wird nachgewiesen durch die vollständige Einhaltung der angeführten harmonisierten und nicht harmonisierten Normen:</p>		
<p><b>2011/65/EU RoHS-Richtlinie</b>          Richtlinie des Europäischen Parlaments und des Rates vom 8. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten</p>		
<p><b>2014/35/EG Niederspannungsrichtlinie</b>          Richtlinie des Europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen</p>		
		EN 60335-1:2012 + A11:2014 EN 60335-2-29:2004 + A2:2010
<p><b>2014/30/EU EMV-Richtlinie</b>          Richtlinie des Europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit und zur Aufhebung der Richtlinie 89/336/EWG</p>		
		EN 55014-1:2006 + A1:2009 + A2:2011 EN 55014-2:1997 + A1:2001 + A2:2008 EN 61000-4-2:2009 EN 61000-4-3:2006 + A1:2008 EN 62233:2008 + Corr.1:2008
<p><b>2012/19/EU WEEE-Richtlinie</b>          Richtlinie des Europäischen Parlaments und des Rates zur Entsorgung von Elektro- und Elektronik-Altgeräten</p>		
<p>Karlstein am Main, 01.09.2017</p>		
 Sven Bauer, Geschäftsführer	 L.V. Dirk Oestreich, Leiter Entwicklung	
<p>Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, sichert jedoch keine Eigenschaften im Sinne des Produkthaftungsgesetzes zu.</p>		
<b>Geschäftsführer</b> HRB-Nr. 5890 Aschaffenburg Commerzbank Sparkasse Aschaffenburg Deutsche Bank	<b>Sven Bauer</b> St. Nr.: 12259444 BIC: COBADE33 BIC: BYLADEM1ASA BIC: DEUTDEFF308	Ust.-ID-Nr.: DE 811770243 IBAN DE 3279560049105770200 IBAN DE 7179560000240004283 IBAN DE 8550870005010501500 BLZ 79540049 Kto. 1057702 BLZ 79560000 Kto. 240004283 BLZ 50870005 Kto. 010501500

Figure 15  
Certification of  
Conformity charger art.  
no. 31116-2

**BMZ GMBH**  
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E-Mail: mail@bmz-group.com · Internet: www.bmz-group.com



**EG-Konformitätserklärung**

**Firma:** BMZ GmbH

**Anschrift:** Am Sportplatz 28  
63791 Karlstein

**Produkt:** Ladegerät

**Bezeichnung:** Ladegerät Li-Ion 10S 42.0V 5.0A 120V 60Hz

**Artikel-Nr. BMZ:** 31116-2

Für das bezeichnete Produkt wird bestätigt, dass es den wesentlichen Anforderungen der folgenden Europäischen Richtlinien und Normen entspricht.

Die Übereinstimmung des Produktes 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 vom 8. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten

**2014/35/EG Niederspannungsrichtlinie**  
Richtlinie des Europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten betreffend elektrische Betriebsmittel zur Verwendung innerhalb bestimmter Spannungsgrenzen

**2014/30/EU EMV-Richtlinie**  
Richtlinie des Europäischen Parlaments und des Rates zur Angleichung der Rechtsvorschriften der Mitgliedstaaten über die elektromagnetische Verträglichkeit und zur Aufhebung der Richtlinie 89/336/EWG

**EN 60335-1:2012 + A11:2014**  
**EN 60335-2-29:2004 + A2:2010**

**2012/19/EU WEEE-Richtlinie**  
Richtlinie des Europäischen Parlaments und des Rates zur Entsorgung von Elektro- und Elektronik-Altgeräten

**EN 55014-1:2006 + A1:2009 + A2:2011**  
**EN 55014-2:1997 + A1:2001 + A2:2008**  
**EN 61000-4-2:2009**  
**EN 61000-4-3:2006 + A1:2008**  
**EN 62233:2008 + Corr.1:2008**

Karlstein am Main, 01.09.2017

  
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 Produkthaftungsgesetzes zu.

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Figure 16  
Certification of  
Conformity charger art.  
no. 24555-9







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<h3>EC Certification of Conformity</h3>		
<b>Company:</b>	<b>BMZ GmbH</b>	
<b>Address:</b>	Am Sportplatz 28 63791 Karlstein	
<b>Product:</b>	<b>Battery charger</b>	
<b>Designation:</b>	<b>Ladegerät 10S Li-Ion 42V 4A 207-264VAC</b>	
<b>BMZ Item No.:</b>	<b>24555-9</b>	
We confirm that the designated product corresponds to the substantial requirements of the following European guidelines:		The conformity of the product with the guidelines is proven by the complete compliance to the following mentioned harmonized and not harmonized standards.
<b>2011/65/EC RoHS Directive</b> Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment		<b>EN 50581:2012</b>
<b>2014/35/EC Low Voltage Directive</b> Guideline of the European Parliament and of the Council to adjust the legislation of the member states concerning electrical equipment for the use within certain voltage limits		<b>EN 60335-1:2012</b> <b>EN 60335-2-28:2010</b>
<b>2014/30/EU EMC Directive</b> Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast)		<b>EN 55014-1:2012</b> <b>EN 55014-2:2009</b> <b>EN 61000-4-2:2009</b> <b>EN 61000-4-3:2011</b> <b>EN 62233:2008 + Corr.1:2009</b>
<b>2012/19/EU WEEE Directive</b> Directive of the European Parliament and the Council on waste electrical and electronic equipment		
Karstein am Main, 13.07.2017		
 Sven Bauer, Managing Director		 i.V. Dirk Oestreich, Director R&D
This declaration certifies compliance with the above mentioned directives but does not include a property assurance.		
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Figure 17  
 Certification of  
 Conformity charger art.  
 no. 24555-11

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<b>Product:</b>	<b>Battery charger</b>	
<b>Designation:</b>	<b>Ladegerät 10S Li-Ion 42.0V 4.0A 207-264VAC</b>	
<b>BMZ Item No.:</b>	<b>24555-11</b>	
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<b>2011/65/EC RoHS Directive</b> Directive of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment		<b>EN 50581:2012</b>
<b>2014/35/EC Low Voltage Directive</b> Guideline of the European Parliament and of the Council to adjust the legislation of the member states concerning electrical equipment for the use within certain voltage limits		<b>EN 60335-1:2012</b> <b>EN 60335-2-29:2010</b>
<b>2014/30/EU EMC Directive</b> Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast)		<b>EN 55014-1:2012</b> <b>EN 55014-2:2009</b> <b>EN 61000-4-2:2009</b> <b>EN 61000-4-3:2011</b> <b>EN 62233:2008 + Corr.1:2009</b>
<b>2012/19/EU WEEE Directive</b> Directive of the European Parliament and the Council on waste electrical and electronic equipment		
Karlstein am Main, 13.07.2017		
 Sven Bauer, Managing Director		 i.V. Dirk Oestreich, Director R&D
This declaration certifies compliance with the above mentioned directives but does not include a property assurance.		
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