BAFANG

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MAX Drive System

Original instruction manualRead carefully before use. Keep for later BF-CM-S-M01-EN- A/1, December 2016

CONTENT

6 Service and Warranty Policy32

..... 33

5 DISPOSAL CONSIDERATIONS ...

: 31

4 TRANSPORTING THE PEDELEC ...

29	CUSTOMER SERVICE	3 CU
. 28	Battery wear	2.10
27	Storing the battery	2.9
26	Switching the electrical system on and off	2.8
. 24	Charging the battery	2.7
23	OPERATION	2.6
. 21	Charger	2.5
21	Specifications	2.4
20	Caution	2.3
19	Notification·····	2.2
. 18	User Instructions	2.1
.18	Battery (Optional)	2 Bat
17	Error Code Definitions	1.6
13	Parameter Setting	1.5
11	Normal Operation	1.4
9	Function Overview and Key Definations	1.3
00	Appearance and Dimensions	1.2
00	Specifications and Parameters of the Display	1.1
 ∞	Display (DP C07.UART)	1 Dis
4	For your Safety	For you
ω	Important Notice	Import

Important bolted connection! Please adhere

coming loose or breaking. Make sure to read all is also essential that you comply with the correct environment, and warning against potential falls the documentation supplied. torque in order to prevent components from and serious damage, including physical injury. It referring to possible damage to property and the about your new pedelec and how to use it, and pointers, providing important information This operating manual contains various points

- This symbol signifies a risk that the danger described may occur.
- Warning texts are always displayed against a gray background.

The warnings break down as follows:



Information: This symbol provides information against improper use that could result in Warning: This symbol is used to warn users about how to use the product or highlights particularly important. specific parts of the operating manual that are



to your health and/or even life that may arise if Danger: This symbol indicates possible dangers specific actions are not undertaken or corresponding regulations adhered to.

damage to property or the environment.

connected using an incorrect torque may fall off to the exact recommended torque when or break. This can result in serious accidents. leave this work up to a specialist retailer. Parts not own a torque wrench, then you should achieve the precise torque prescribed. If you do component. A torque wrench must be used to mounting torque is either displayed on the tightening this connection. The correct



yourself. Please consult the local sales office or a product. If you have doubts concerning any part Operating Instructions. Make sure to read all of the manual, do not install the product the installation manuals delivered with the pedelec dealer for help.

SAFETY INSTRUCTIONS

General information



- If you lend your pedelec to a third party, along with the pedelec. please give them this operating manual
- Check that all quick releases are safe and bolts and components are secure. short period of time. Regularly check that all secure every time you ride, and after your pedelec has been left unused, even for a
- Never ride with your hands off the handlebars, except when signaling a change of



When using this product, be sure to follow the instructions given in the user manual.

- It is recommended that you only use genuine BAFANG parts.
- The pedelec may suddenly fall over and improperly adjusted. left loosened, or the product is damaged or serious injury may occur if nuts and bolts are
- When performing maintenance operations (replacing parts, for example), be sure to wear goggles to protect your eyes
- Please refer to the manuals provided along with the product for information uncovered
- it in a safe place for later reference After reading the user manual carefully, keep

For your safety



placing your foot on the pedal. The motor will Always apply the Pedelec's brakes before could result in injury. to falls, danger or even traffic accidents, which pedal. This force may be unfamiliar and can lead drive forward as soon as you push down the

- Do not pay too much attention to the cycle display while riding, otherwise you may fall off the pedelec.
- Check that the wheels are securely attached pedelec may fall over and serious injury may the wheels are not securely installed, the to the pedelec before you start riding. If
- When riding a pedal-assisted electric pedelec, make sure that you are fully familiar off suddenly, accidents may occur. pedelec before riding it. If the pedelec starts with the starting characteristics of the
- Make sure the pedelec's lights are on before riding at night.
- It is vital that all bolted connections on the without this specialist tool! correctly tighten these bolted connections to tighten screw joints. You are not able to component. Always use a torque spanner rect torque can damage the screw, nut or to ensure that they are secure. An incorpedelec have the correct torque in order

Maintenance Installation and



It is vital that all bolted connections on the joints. You are not able to correctly tighten these Always use a torque spanner to tighten screw can damage the screw, nut or component. ensure that they are secure. An incorrect torque pedelec have the correct torque in order to bolted connections without this specialist tool



Pedelec, turn off the electric motor unit and serious injury and/or electric shock. remove the battery. Not doing so may result in Before performing any kind of work on your



If such cleaning agents are used, they may damage the chain and serious injury may result agents to remove rust under any circumstances cleaner. Do not use alkaline or acidic cleaning clean the chain using an appropriate chain depending on riding conditions. Periodically The frequency of maintenance will vary

Safety Precautions

- user manuals for your riding safety. Please follow the instructions given in the
- Regularly examine the battery and the plug and casing. If the battery or charger is charger for damage, especially the cable, been repaired. damaged, it must not be used until it has
- by persons (including children) with reduced the satety supervisor or the instructions Please follow the guidance given by physical, sensory or mental capabilities, or edge, unless supervised or having received lacking the required experience and knowlproduct. This product is not intended for use indicated in the manual when using the

by a person responsible for their safety. instructions concerning use of the product

- Should you encounter any errors or prob-Do not allow children to play near the
- Do not modify the system yourself. Doing so may be considered illegal or cause the lems, consult your nearest dealer.
- For information on product installation and adjustments, please consult with your dealer system to malfunction.
- The product is designed to be fully waterimmerse it in water. proof so as to withstand wet weather riding conditions. However, do not deliberately
- Do not clean the pedelec using a high-pressure cleaner. If water gets into any of the components, operating problems or rusting
- When shipping the product on a high-speed getting wet. vehicle exposed to rain, remove the battery and put it in a safe place to stop it from
- Handle the product carefully, and avoid subjecting it to any strong impacts.
- Key important information may also be found on the product labels.
- When buying a spare key for the battery, be your notebook. key. Please keep the number in your mind or sure to provide the number on the battery
- Use a wrung-out damp cloth to clean the battery casing.
- For any questions regarding maintenance dealer where you bought the product. and use of the product, please contact the

 Natural wear and tear due to normal use and aging is not within our scope of our

- Please contact your dealer for software updates (if applicable).
- Please get to know the pedelec on a safe piece of land before setting off on your first

Quick Start



In this section, you will find important information and instructions that will enable you to safely use your Pedelec as quickly as

- Read all safety instructions.
- Fully charge the battery pack
- If necessary: Insert the battery.
- Lock the battery.
- Activate the system using the LED button on
- Press the " $oldsymbol{\Theta}$ " button on the display: the system will turn ON
- Select the support level via the control unit.
- ightarrow The Pedelec is now ready for operation.

Before the first ride



calm and safe place before you take to public Practice operating and riding your Pedelec in a

> Please also consult the additional operating after reading this manual. answer any further questions you may have specialist pedelec retailer will be happy to your pedelec or are available online. Your manufacturers and which were supplied with manuals, issued by the individual component

Please ensure that your pedelec is ready for use and is adjusted to your body:

- Set the position and fixture of the seat and handlebars.
- Check the assembly and settings of the
- Secure the wheels into the frame and fork
- Charge the battery until it is fully charged.
- Ensure that the battery is sitting securely in

Before each ride



If you are unsure as to whether your pedelec is in instead of riding it. take it to a specialist retailer to be checked pedelec is in sound technical condition, If you are unsure as to whether your retailer to be checked instead of riding it. sound technical condition, take it to a specialist

heavy wear, which can impact the such as brakes and wheels are subject to and other parts relevant to your safety and serious injury. warning, which can in turn lead to falls intended lifetime, these can fail without If you use parts for longer than their operating safety of these parts. The frame, fork, suspension components

Before every ride, please check that:

- The lights and bell are working and are sately secured
- The brakes are working safely and are prop-
- have a model with hydraulic brakes The cables and fittings are not leaking if you
- run true, particularly after riding off-road. The tires are free of foreign objects and damage, and the rims are not damaged and
- The tires have a sufficient tread depth.
- The suspension components are working properly and are safely secured.
- All bolts, nuts and quick releases are tightly
- There are no deformations or cracks in the frame and fork.
- The handlebars, stem, seat post and seat are set in the right position. all correctly and securely fastened and are
- The seat post and seat are secure Try turning wards. They should not move. the seat or pulling it upwards or down-
- If you are using clipless/magnetic pedals, erly. The pedals should release easily and please check that they are working prop-
- Make sure that the battery is sitting securely
- Make sure that the battery is sufficiently charged for your trip
- Check that the quick releases are fastened and secured each time your pedelec has short time. been left unattended – even if it is for just a

Legal Regulations



Please stay informed about the national regulations applicable in your specific country.

up on the national regulations applicable in your allowed on public roads. specific country. This section provides informa Before riding your Pedelec on public roads, read tion on how the pedelec must be equipped to be

It includes information on:

- Which light systems have to be installed or carried with you?
- Which brakes must the Pedelec be equipped
- There may also be age restrictions that apply to riding in specific areas.
- For example, the issue of children riding on public roads is addressed here.
- If there is an obligation to wear a helmet, it

1 DISPLAY (DP C07.UART)

1.1 Specifications and Parameters of the Display

- 36V / 43V / 48V Power Supply;
- Rated Current: 10 mA
- Maximum Operating Current: 30 mA
- Power-off Leakage Current: <1uA
- Operating Current Supplied to the Controller: 50 mA
- Operation Temperature: -18 ~ 60 %
- Storage Temperature: -30~70 %
- Waterproof Grade: IP65
- Storage Humidity: 30 % 70 %

1.2 Appearance and Dimensions

1.2.1 Materials and Dimensions

The shell is made of PC. The liquid crystal display is made of hardened PMMA.

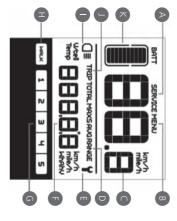


Function Overview and Key Definitions

1.3.1 Function Overview

- Use of a two-way serial communication protocol simple operation of the display via the external 5-key keypad.
- Speed display: displaying the real-time speed as SPEED, the maximum speed as MAXS and the average speed as AVG.
- km or mile: The user can choose between km and mile.
- Intelligent battery level indication: With an optimization algorithm, a stable display of the battery level is ensured, and the problem of fluctuant battery level indication common with other displays is avoided.
- Automatic light-sensitive lights: The headlight, taillight and display light will be automatically turned on/ off depending on lighting conditions
- 5 levels off display backlighting: Different levels
- 5-Level-Support: setting power Levels 1 to 5
- Trip distance indication: The maximum distance displayed is 99999. Single-trip distances TRIP or the total distance TOTAL can be displayed.
- Display of error messages
- Walk assistance
- Settings: Various parameters, e.g. mode, wheel diameter, speed limit etc., can be set on the com puter via a communication cable. See the setting
- Maintenance warning (this function can be deac tived): Maintenance warning information is dis played based on battery charge cycles and riding distance. The display automatically estimates the battery life and gives warnings when the number of charge cycles exceeds the set value. A warning will also be displayed when the accumulated total riding distance exceeds the set value.

1.3.2 Information on the Display



- A Maintenance warning: When there is a need for maintenance the symbol **SERVICE** will be displayed (riding distance or the number of battery charge cycles exceed the set value, function can be deactivated)
- Menu
- Speed display: display of the speed, km/h or mph
- Speed mode: average speed (AVG km/h), maximum speed (MAXS km/h)
- Error display: When a fault is detected the symbol \(\delta\) will be displayed.
- Distance indication: display of the distance depending on the setting.
- G Level indication: The chosen level 1–5 will be displayed; if there is no numeric display, it means that there is no assistance (by the motor). If the rider is walking and pushing the e-bike, [walk] will be displayed.
- Walk assistance
- Headlight indication: only shows when headlight or backlight are on

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Battery level: 10-segment battery indication; the customized voltage that each segment represents can be

1.3.3 Key Definitions



- q

down

- headlight
- on/off
- mode

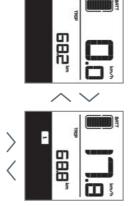
1.4 **Normal Operation**

1.4.1 On/Off Switch

be automatically turned off. 2 seconds to power off the display. If the bike is not to power on the display. Press and hold (a) again for used, after 5 minutes (time can be set) the display will Turn on the device. Press and hold (b) for 2 seconds

1.4.2 **Assist Mode Selection**

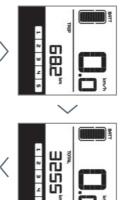
the display is on, the default mode is Level 1. When to choose the desired level of support by the motor In the manual gearshift mode, press the 🛨 or 🖃 assistance. there is no numeric mode display, there is no power The lowest level is Level 1, the highest Level 5. When





1.4.3 Switch between Distance Mode and Speed Mode

speed. Single-trip distance ((TRIP km) \longrightarrow total distance Briefly press i to switch between distance and successive order. average riding speed (AVG km/h) are displayed in (TOTAL km) \rightarrow maximum speed (MAXS km/h) \rightarrow

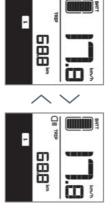




Switching between displays

Selecting the level for motor assistance

on. Press **Q** again for 2 seconds to power off the afterwards). manually, they also need to be turned on manually the display backlight/headlight/taillight are turned off headlight/taillight will be turned on automatically. If turned on in a dark environment, the display backlight/ display backlight/headlight/taillight. (If the display is as well as the headlight and taillight will be turned Press (Q) for 2 seconds. The backlight of the display

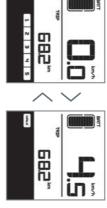


Display backlight, headlight and taillight

selected by the user. There are 5 levels of backlight brightness that can be

1.4.5 Walk Assistance

assistance mode, and the symbol WALK is displayed. Once the key is released, the e-bike will exit the walk assistance mode. Press for 2 seconds. The e-bike enters the walk

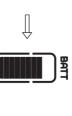


Switch between power assistance and walk assistance mode

1.4.6 Battery Status Indication

according to the actual quantity of charge. If all of the 10 segments will black out with the border blinking, the When the battery status is normal, a certain number of the battery LCD segments as well as the border light up battery needs to be charged immediately.









Battery status indication

7	∞	9	10	Number of Charge in Segments Percentag
50 % ≤ C < 60 %	60 % ≤ C < 75 %	75 % ≤ C < 90 %	≥ 90 %	Charge in Percentage
ω	4	υ	O	Number of Segments
10 % ≤ C < 20%	20 % ≤ C < 30 %	30 % ≤ C < 40 %	40 % ≤ C < 50 %	Charge in Percentage
	20 % ≤ C < 30 % border blinking C ≤ 5 %	_	2	Number of Segments
	C ≤5 %	5 % < C < 8%	8% ≤ C < 10 %	Charge in Percentage

1.5 **Parameter Setting**

1.5.1 Items to be Set:

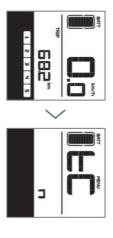
- > Data reset
- > km/mile

> Light sensitivity

- > Display backlight brightness
- Automatic off time
- > Maintenance warning settings
- > Input of the password
- Wheel diameter selection
- > Setting speed limit

CONSUMER MANUAL MAX DRIVE SYSTEM

When the display is active, press in twice (interval < 0.3 seconds). he system will enter the ME rameter setting state, in which the display parameters can be set. Press in twice again (interval < 0.3 seconds) to return to the main menu.



Menu for entering the parameter settings

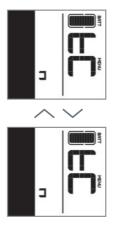
In the parameter setting state, when the parameter you want to set begins to flash, press 1/2 to adjust the parameter value. Briefly press 1/2 to switch between the parameters to be set. Press 1/2 twice (interval < 0.3 seconds) to exit the submenu.

If no operation is performed for 10 seconds, the display will return to the normal riding display.

1.5.3 Data Reset

Press in twice (interval < 0.3 seconds) – the display enters the MENU state. In the speed field tC is displayed. If you press in a judy displayed. The maximum speed (MAXS), average speed (AVG) and single-trip distance (TRIP) can be cleared. Briefly press (0.3 seconds) to enter the km/mile setting interface.

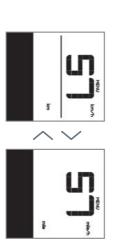
If the user does not reset the data, the single trip distance and the accumulated total riding time will be automatically cleared when the accumulated total riding time exceeds 99 hours and 59 minutes.



The data will not be cleared when the display's lightsensing function is set to 0 or when it is switched off.

1.5.4 km/mile

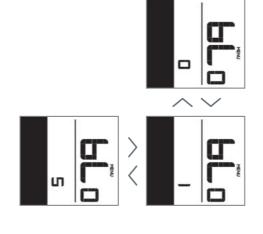
When the speed field displays 57, press / to switch between km/h and mph, or to set km or mile. After this setting, briefly press (< 0.3 seconds) to enter the setting interface of light sensitivity.



1.5.5 Light Sensitivity

When the speed field displays bLO, use \pm / \pm to choose a figure between 0 and 5. The higher the chosen figure, the higher the light sensitivity.

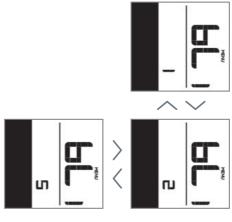
After this setting, briefly press (<0.3 seconds) to enter the setting interface of backlight brightness.



1.5.6 Display Backlight Brightness

When the speed field displays bL1, press (+/) cto choose a figure between 1 and 5. The figure 1 represents the lowest brightness while 5 indicates the highest display backlight brightness.

After this setting, briey press (<0.3 seconds) to enter the setting interface of automatic off time.

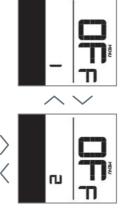


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1.5.7 **Automatic Off Time**

When the speed field displays OFF, press (+)/(-) to the minutes that it takes to automatically shut down choose a figure between 1 and 9. The gures indicate

enter the setting interface of maintenance warning. After this setting, briefly press (< 0.3 seconds) to



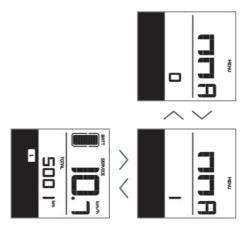




1.5.8 Maintenance Warning (can be deactivated)

choose either 0 or 1. 0 disables the function while 1 When the speed field displays nnA, press $\boxed{+}$ $\boxed{}$ to

enter the setting interface of password input. After this setting, briefly press (< 0.3 seconds) to



Maintenance Warning Setting

on such information as the accumulated riding dis tance and the battery charge cycles The display will prompt maintenance necessity based

- When the accumulated total riding distance **SERVICE**. When the display is started up, the exceeds 5,000 km (can be customized by the manufacturer), the display will show the symbol for 4 seconds, indicating that maintenance is sign for accumulated riding distance will flash
- When the number of battery charge cycles ex is necessary. ceeds 100 (can be customized by the manufactu the display is started up, the sign for battery will rer), the display will the symbol SERVICE. When flash for 4 seconds, indicating that maintenance
- The maintenance alert function can be disabled tenance alert (MA) \rightarrow 0. (Maintenance alert USB connection. See also the parameter setting can also be set via a computer. This requires a settings \rightarrow maintenance alert (MA) \rightarrow main-

1.6 **Error Code Definitions**

field one of the following error codes will be displayed: The MAX-C966 display can show e-bike faults. When a fault is detected, the icon 🕈 will be displayed. In the speed

"30"	"22"	"21"	"13"	"12"	"11"	"10"	"80"	"07"	"06"	"05"	"04"	"03"	Error Code
Communication fault	BMS communication fault	Speed sensor fault	Battery temperature fault	Current sensor failure	Controller temperature sensor failure	The motor temperature has reached the threshold	Motor hall signal cable fault	Overvoltage protection	Low voltage protection	Throttle fault	The throttle has not returned home	Brake enabled	Error Description
Check the controller connection	Replace the battery	Check installation position of speed sensor	Check the battery	Check the controller	Check the controller	Stop the bicycle until the error code "10" disappears from the screen	Check the motor module	Check the battery voltage	Check the battery voltage	Check the throttle	Check if throttle has returned home	Check whether a brake cable is stuck	Error-shooting Method



protection value, in which case the user needs to stop when the e-bike is climbling for a long time. This Note: Error Code 10 will probably appear on the dispaly the e-bike for a rest. If the user continues to run the indicates that the motor temperature has reached the e-bike, the motor will automatically cut off the power.

Error display



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different types of batteries. Detailed Your Pedelec can be supplied with three specifications can be found in the table below.

UART Model numbers: BT C01.340.UART, BT C01.450



User Instructions



Please read the battery instructions and the battery label before use









rould follow BT C01.340.U A2Q9210272

Risk of fire or explosion if battery is used with an incompatible system.

to risk of short circuit, fire or explosion. continue to use battery and return immediately In case of drop, shock or similar event, do not Do not open, disassemble or pierce battery due

Please carefully read manual before use. enforced regulations. Disposal of used batteries should follow locally battery due to risk of fire or explosion. Only use the original charger as supplied with

- The battery is not shipped fully charged first use and before storing. Recharge the battery completely before the
- After the first three charging cycles, fully service life will be considerably reduced. charge the battery. This will give you the continuously discharged during later use, its tull capacity of your battery. If the battery is
- In normal operating conditions, partial leave your battery completely empty, and charges will increase the battery life. Never recharge it even after a short period of use

A special charger provided by BAFANG must be used to charge these batteries.

- Do not charge the battery for longer than the charging time listed in the Specification
- Do not bring electrical contacts together. humid places so as to avoid any danger. yourself. Do not store or use the battery in Do not destroy or disassemble the battery
- When disposing of battery, ensure you respect regulations. Do not immerse in fire
- When in use, the battery should be kept away from heat sources, high voltage power supplies and children.
- Do not drop the battery.
- When storing the battery for a long period make sure it is charged to at least half its battery. Store the battery in a dry place. rial, as to do so will cause damage due to later. Do not wrap it with conductive matedirect contact between the metal and the capacity, and charge it again three months
- Keep the battery out of the reach of chilor swallow the battery. dren, and especially ensure they do not bite
- If the battery appears to be in an unusual condition, seems dirty or presents a strange returned to the vendor. odor, do not use. Faulty batteries should be

Notification

- The battery should not be left in direct sunsmoking or weakening its performance and light so as to avoid over-heating, distortion,
- The battery should always be kept away charger, or to play with it. from children. Do not allow children to remove the battery from the pedelec or the
- Do not allow the battery to leak on skin or
- If touched, rinse off with clean water to avoid skin discomfort.
- If the battery is used in any other technical and any special applications. maximum current and fast charge conditions performance, as well as information on its environment, please contact your manufacturer for details on how to get the best
- Do not microwave or use in any other cook ing appliance.
- Distance the battery from cell phones or will cause over-heating, smoking or burning chargers if it is hot to the touch, leaking or odorous, and dispose of it. Faulty batteries
- Do not touch a leaking battery. Leaking with clean water then go to hospital for the eyes, do not rub and immediately rinse this battery acid comes into contact with electrolytes can cause skin discomfort. If
- Note: If the battery is completely discharged charge it as soon as possible. Leaving the will damage its capacity. battery uncharged for long periods of time

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2.3



Do not disassemble the battery.

overheat, smoke, distort or burn. destroy its protective functions and cause it to and will internally short-circuit to avoid danger. The battery contains protective components Mishandling, such as improper disassembly, may



Do not intentionally short-circuit the

distort or burn. make the battery over-heat, smoke, magnified, which will cause damage and battery is short-circuited, its current will be metal elements in storage or in use. If the the battery to come into contact with minus contact with metal. Do not allow Do not touch or connect the plus and



Do not heat or burn the battery.

over-heat, smoke, distort or burn. in turn may cause the battery itself to the electrode to burn or over-heat, which dissolve, the protective function to stop or the isolated elements in the battery to Heating or burning the battery will cause



Avoid using the battery near a heat

and make it over-heat, smoke, distort or cause the battery to internally short-circuit or at over 60°C, as over-heating will Do not use the battery near a fire or stove,



or in direct sunlight. Avoid charging near exposed flames

over-heating, smoking, distortion or lead to abnormal chemical reactions or Doing so may cause the internal functional faults, which will lead to protection function to short-circuit and



Do not damage the battery.

result in danger for the user. over-heat, distort, smoke or burn, and forged or dropped, as this may cause it to Do not allow the battery to be gouged,



Do not directly weld on the battery.

Any application of heat will cause the distort, smoke or burn. battery which will affect its protective isolated elements to dissolve within the function and life cycle, as it will over-heat



socket or a car cigarette lighter. Do not charge directly off the power

cycle, as it will over-heat, distort, smoke damage the battery and reduce its life High voltage and amplified current will

2.4 Specifications

-		
Basic settings	BT C01.340.UART	BT C01.450.UART
Power	340 Wh	450 Wh
Charging time	4.5h with a 2A Charger	6.5h with a 2A Charger
Operating Tempera- ture during Charging	0° ~45°C	0°~45°C
Discharge	-20°∼60°C	-20°∼60°C
Storage (At 35% SOC , -10° \sim 35°C)	6 Months	6 Months
Riding Distance	Min.35km	Min.50km
Position	Carrier	Carrier
Dimensions (L*W*H)	408*123*70 mm	408*123*70 mm
Weight	3 KG	3.5KG
Charger	Special 5P charger	Special 5P charger
Certification	CE/UN38.3	CE/UN38.3

^{*} from the date of sale, check your bicycle brand warranty papers for the specific details.

Charger

Warranty

24 months *

24 months *



charger label before use. Please read the charger instructions and the



20



- When you clean the charger, unplug it from the electrical socket first.
- When charging takes longer than shown in the specifications table, stop charging.
- After charging, remove the battery from the charger and unplug the charger.

grated fuse and protection against overcharging lithium-ion batteries. It is equipped with an inte-The charger is specially designed for charging

- to an electric shock, a malfunction or a fire. damage the cable while playing. This can lead animals. Small children and animals may Keep the charger away from children and
- The charger must not be used by children, or sion of a responsible adult mental capabilities, unless under the superviby persons with limited physical, sensory or
- Make sure the charger is clean. There is a risk of electric shock.
- Do not use your charger in humid or dusty
- Avoid direct sunlight.
- Disconnect the charger from the power supply when not in use.
- Only use the charger that came with your pedelec or one from the same manufacturer
- Don't cover the charger while it is in use. It could otherwise short circuit or cause a fire

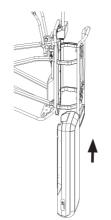
2.6 **OPERATION**

2.6.1 Installing the battery



battery, the electric drive of your pedelec will as far as it will go. Without contact with the inserted and locked from the rear of the casing For correct insertion, the battery must be

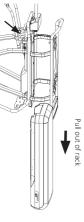
- 1. If your battery has an on/off switch, always the holder. turn off the battery before inserting it into
- 2. For the battery to be inserted, the lock must battery by turning the key provided. be unlocked. You can lock and unlock the
- 3. Slide the battery along the rail track into the connector on the rail as far as it will go, then turn the key to lock the battery.
- 4. Remove the key to avoid losing or breaking it.



2.6.2 Removing the battery

When removing the battery, proceed as follows:

- 1. Switch off the electric drive system and, if possible, the battery.
- 2. Unlock the battery



3. Remove the battery from the casing/battery



Hold the battery tightly as it is heavy.

2.6.3 LED capacity and state of charge indication

- Press the 🖸 button to wake up from Sleep
- Hold down the **O** button for 5 seconds to wake up from Deep Sleep mode

in the following table. illuminated for different charging states as listed tery by pressing the on/off button of the battery. Then check the current charge level of your bat-The charge status is indicated by LEDs, which are

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2.7 Charging the battery

0.

Five green lights

≥75%





Charge your battery at temperatures between 0°C and 45°C (ideally at room temperature or 20°C). Give the battery sufficient time before charging to reach this temperature.

- Read the instructions on the charger before charging.
- First insert the plug of the charging cable into the charging socket on the battery, then the plug the charger into a socket.
- 2. As soon as the charger is connected to the power supply, a red LED will light up.



Charger with arrow and text "red LED"

When charging is complete, the LED changes from red to green.



Charger with arrow and text "green LED"

Charging time depends on various factors. It can vary greatly according to the temperature, age, usage and capacity of the battery. You can find indications of possible charging times, if necessary, in the technical data of the battery.

When the battery is fully charged, the charging process is automatically terminated. Unplug the plug from the battery and the power outlet.

Errors – Causes and Solutions

rior action		
The operating display does not light up	Mains plug not properly connected to the power supply	Check all connections and whether the charger is properly connected to the power supply
The charging indicator is not lighting up	The battery may have a malfunction	Contact the manufacturer or your specialist dealer
The charging indicator is not lighting up permanent red	The battery may have a malfunction	Contact the manufacturer or vour specialist dealer



Only use the charger designed for the battery.

Make sure you use the correct mains voltage. The required mains voltage is indicated on the charger. It must comply with the voltage of the current source. Chargers marked 230V can also be operated at 220V.

If the charging time exceeds the usual charging

times (see table), the battery may be damaged. In this case, immediately stop charging. Have a dealer check the battery and charger to avoid

The battery has to be recharged completely at least every 3 months, in order to avoid damaging or destroying the cells.

- Do not touch the power plug with wet hands. There is a risk of electric shock.
- Before use, check that the charger, cable and plug are not damaged. If damage occurs, do not use the charger. There is a risk of electric shock.
- Charge the battery in well-ventilated rooms only.
- Do not cover the charger and/or battery during charging. There is a risk of over-heating, fire, or explosion.
- Only charge on a dry, non-flammable surface.

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not weighed down when the system is turned Make sure that the pedals of your Pedelec are on. Any load on the pedals as it is switched on messages. When this happens, switch off the may lead to power restrictions and error system and turn it on again.

In order to activate and use your Pedelec, the following prerequisites must be fulfilled:

- A sufficiently charged battery must be used
- The battery must be inserted correctly into the battery holder.
- The motor, control unit, control unit/battery, etc. must all be connected correctly.

delec on and off according to the description on the control unit, see section "Control element". You can switch the electrical system of your Pe

If the battery of your Pedelec is equipped with an on/off switch, you can also press the switch on the battery.



Battery switch On-Off

turned off. If you press the switch again, the system will be

2.9 Storing the battery

If you do not use your Pedelec for an extended dry room. (60-80%) and store it separately in a frost-free, period of time, remove the battery, charge it

- Check the charge level every 3 months and recharge if necessary.
- Store your battery at a temperature between -10°C and 35°C.
- Avoid storing in direct sunlight.
- To prevent deep discharge, the battery will go into sleep mode after a certain time.
- Do not expose the battery to temperatures in direct sunlight or in over-heated vehicle of around 45°C are common near heaters, of -10°C to 35°C. Note that temperatures below the permissible storage temperature



If you notice the battery becoming hot during use, charging or storage, developing a strong Immediately stop using the battery and have a abnormality, do not continue to use the battery. odor, changing appearance, or any other use, charging or storage, developing a strong dealer check it before you use it again.

2.10 Battery wear



of your Pedelec will decrease. You should then During that time, the battery capacity and range The battery can run for approx. 500 charging. you can continue to use it. replace the battery. If the range is still sufficient,

range of your Pedelec with regard to engine supbattery slowly decreases. This also reduces the As the service life increases, the capacity of the port. This does not constitute a defect.

The battery life depends on various factors:

- The number of charging operations (about 500 charging cycles).
- The age of the battery.
- The storage conditions.

capacity will be lost even if you do not use the Of course, your battery will deteriorate and enced by the following measures: battery. The lifetime of your battery can be influ-

- Charging your Battery after every ride, even short trips. Lithium-ion batteries are not subject to a memory effect.
- Avoiding driving in high gears with high levels of push-assistance.

3 CUSTOMER SERVICE



If you have any questions concerning the electrical system, please contact the manufacturer or cal system, please contact the manufacturer or your specialist dealer.

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28



Remove the battery before transportation and transport it separately. Cover the contacts with a transport cap to prevent the risk of a short circuit. In the case of a short circuit, there is a risk of injury and fire.

4.1 By car

You can transport your Pedelec by car as you would a normal pedelec. The weight of the Pedelec will call for a heavier-duty rack.

4.2 By public transport

The same regulations apply as when transporting a bicycle. For safety reasons, remove the battery before entering a train with the Pedelec, and do not put it back until you have dismounted.

4.3 By airplane

The battery must be considered as a hazardous material. It must be carried as such. Please consult your airline.

DISPOSAL CONSIDERATIONS

If parts of your Pedelec are replaced, please take note of the waste disposal instructions for your local waste disposal company. Used batteries and accumulators must not be disposed of with normal household waste.

According to European Directive 2006/66/EC

defective or used batteries must not be used,

Every consumer is obliged by law to dispose of used batteries at a collection point specifically for used batteries at a recycling center, battery trading company, specialist dealer or manufacturer.

Batteries containing harmful substances are marked with a symbol consisting of a crossed-out waste bin and the chemical symbol (Cd, Hg or Pb) of the heavy metal which is responsible for its classification as a pollutant.

For further information, please contact your local waste disposal service or your municipal administration.



Waste batteries, accumulators with lead, NiMH (nickel metal hydride) or lithium-ion technology are considered dangerous goods.

Lithium-ion batteries should be isolated on each pole with insulating tape to prevent short-circuiting, and potentially dangerous follow-up reactions. When transporting or transferring the batteries to a waste disposal facility, the provisions of the ADR (regulations for the transport of dangerous goods) apply.



The drive unit, battery, display, control element, accessories and packaging must be recycled in an environmentally sound manner. Do not throw components of the electric drive out with household waste.

Dispose of used batteries with an authorized pedelec dealer.

30

applicable national regulations in your specific defects apply. Please inform yourself about the conditions for warranty/liability for material In all nations which apply EU law, the common

already existed at the time of sale. six months, the assumption is made that these In fact, if material defects occur within the first existed at the time of sale/change of ownership of sale. This also covers defects which already terial defects for at least two years after the date Under EU law, the seller accepts liability for ma-

component manufacturers. manual and in the supplied instructions from the nance was in line with all conditions stipulated. liability is that the product's use and mainte-One precondition for the seller assuming this These are outlined in the pages of this operating

In most cases, the customer can first request customer is entitled to abatement or cancellation which is the assumption after two attempts, the subsequent fulfilment. If repair fails conclusively,

and contact points of the rider with the pedelec are all subject to use-related wear. deceleration system as well as tyres, light system intended purpose. Components in the motor and normal wear occurring from the product's Liability for material defects does not cover

concerning material and workmanship. BAFANG for products purchased from BAFANG tor") guarantees that: During the warranty peas long as the products are within the warranty riod, customers will enjoy warranty service from Ltd (hereinafter referred to as the "BAFANG Mo Suzhou Bafang Motor Science-Technology Co., period and the issues are indeed quality issues

Warranty Period and Scope

and is 24 months for the motor, and 24 months papers for the specific details. components. Check your bicycle brand warranty for the controller, display, sensor and other The warranty period starts from the date of sale,

apply to the following situations: The BAFANG limited warranty does not cover or

- 1. Damage, failure and/or loss caused by or commercial purposes; cident, misuse, abuse or use for competition retitting, neglect, improper maintenance, ac-
- 2. Damage, failure and/or loss due to shipping by customer,
- . Damage, failure and/or loss caused by improper installation, adjustment or repairs;
- Damage, failure and/or loss irrelevant to material and workmanship, e.g., failure to follow instructions by users;
- Damage, failure and/or loss caused by prod uct's appearance or surface modifications which do not affect its function;
- Damage, failure and/or loss due to maintenance or installation by repair stations or dealers unauthorized by BAFANG;
- BAFANG reserves the right to repair or replace the . Damage, failure or loss caused by normal

components, and is only responsible for repairing

or replacing them.

check whether the products are under warranty BAFANG's technology service department who will order number and product's serial number to BAFANG products, they can report the purchase encounter quality issues when using or selling Should pedelec manufacturers or dealers

BAFANG reserves the right to modify the terms without prior notice. rent Chinese law, the Chinese law shall prevail

pany website: www.szbaf.com. For the latest information, please visit the com-

Imprint

shall be undertaken by the customers or repair the products for customers, but the warranty, BAFANG can still provide spare parts what to do by sending them videos or docucustomers with free spare parts, show them themselves. For bigger issues, BAFANG will provide spare parts so that they can correct the problem (dealers or pedelec manufacturers) with free or not. For products under warranty, and for incurred material cost, labor cost, freight etc for them. For products no longer covered by ments or, in some cases, repair the products small problems, BAFANG will provide customers For questions concerning your pedelec please BAFANG

If an end user has a pedelec equipped with should contact the pedelec manufacturer or BAFANG components which need repairing, they

If this warranty statement goes against a cur-

case the manufacturer of the pedelec. always contact your dealer first, only then in For contact details please refer to the war-

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ing in intellectual property. Legal inspection by a lawyer's office specialis

areas, the manufacturer of the pedelec is outside of the scope of the aforementioned In the case of delivery or use of this product instructions required to supply the necessary operating

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32