

INSTRUCTION MANUAL

FIT STANDARD CHARGER 36V

FIT FAST CHARGER 36V

500951 | 500074



NETWORKED
CUSTOMISED
INTELLIGENT

TABLE OF CONTENTS

1	PREFACE	3
2	ABOUT THESE OPERATING INSTRUCTIONS	4
2.1	MANUFACTURER	4
2.2	EU IMPORTER	4
2.3	LANGUAGE	4
2.4	DECLARATION OF CONFORMITY	4
2.5	ON INFORMATION	4
2.6	WARNINGS IN THESE OPERATING INSTRUCTIONS	4
3	SAFETY INSTRUCTIONS	5
3.1	GENERAL INFORMATION	5
3.2	CHARGER	5
3.3	RECHARGEABLE BATTERY	5
4	PRODUCT AND TECHNICAL SPECIFICATIONS	7
4.1	FIT STANDARD CHARGER 36V/FIT FAST CHARGER 36V	7
4.2	PROPER USE	8
4.3	IMPROPER USE	8
4.4	TECHNICAL DATA	8
4.4.1	FIT STANDARD CHARGER 36V/FIT FAST CHARGER 36V	8
5	OPERATION	9
5.1	INSTRUCTIONS FOR CHARGER AND BATTERY	9
5.2	CHARGING OPTIONS	9
5.3	INITIAL OPERATION	9
5.4	CHARGING THE BATTERY WHEN FITTED	9
5.5	CHARGING THE BATTERY WHEN REMOVED	9
5.6	COMPLETION OF CHARGING	9
5.7	DISPLAY AND SETTINGS	10
5.7.1	CHARGE INDICATOR	10
6	CLEANING AND SERVICING	11
6.1	CLEANING THE CHARGER	11
7	TROUBLESHOOTING, FAULT CLEARANCE AND REPAIR	12
7.1	TROUBLESHOOTING AND FAULT CLEARANCE	12
7.1.1	DRIVE SYSTEM OR DISPLAY DOES NOT START UP	12
7.2	BATTERY ERROR	12
7.3	REPAIR	13
7.3.1	ORIGINAL PART	13
8	RECYCLING AND DISPOSAL	14
8.1	DISPOSAL	14

1 PREFACE

Dear FIT customer,

The FIT system offers many useful functions and options and we are pleased that you have decided to choose our system.

Please read through the operating instructions carefully to ensure you use the system safely and get off to a quick start.

We hope you enjoy discovering the FIT's functions and have a fun ride every time you use it.

Thank you for placing your trust in FIT.

Your FIT Team

2 ABOUT THESE OPERATING INSTRUCTIONS

2.1 MANUFACTURER

Smartscale NewCo AG
Luzernstrasse 84
CH-4950 Huttwil
fit-ebike.com/en-en/

2.2 EU IMPORTER

Smartscale NewCo Europe GmbH
Im Höning 5
DE-63820 Elsenfeld

2.3 LANGUAGE

The original operating instructions are written in German. A translation is invalid without the original operating instructions.

2.4 DECLARATION OF CONFORMITY

Biketec GmbH hereby declares that the products described in these operating instructions comply with EU directives. The complete EU Declaration of Conformity is available online at: fit-ebike.com/en-en/service/declaration/

NOTICE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAN ICES-003(B) / NMB-003(B)

2.5 ON INFORMATION

Different markings are used in the operating instructions to make them easier to read.

2.6 WARNINGS IN THESE OPERATING INSTRUCTIONS

Warnings indicate hazardous situations and actions. You will find the following warnings in the operating instructions:



DANGER

May lead to serious or even fatal injuries if ignored. Medium-risk hazard.



CAUTION

May lead to minor or moderate injuries if ignored. Low-risk hazard.



NOTICE

May lead to material damage if ignored.

3 SAFETY INSTRUCTIONS

3.1 GENERAL INFORMATION

Please read all safety instructions carefully. Failure to comply with the warnings or take residual risks into account may result in electric shock, fire and/or serious injury.

Keep the operating instructions in a safe place and have them readily available to consult. Pass these instructions on if you provide your e-bike for someone else's use.

The generic names used in these operating instructions, such as motor, battery and operating element, all refer to original FIT e-bike components.

3.2 CHARGER

Do not expose the charger to rain or damp. If water penetrates into a charger, there is a risk of electric shock.

Charge FIT Li-ion batteries approved for e-bikes with the FIT charger only. The battery voltage must match the charger's battery charge voltage; there is a risk of fire and explosion if it does not. Keep the charger clean. Dirt can pose an electric shock hazard.

Check charger, cable and connector before use. Do not use the charger if you spot any damage. Do not open up the charger. Damaged chargers, cables and plug connectors increase the risk of electric shock.

Do not use the charger on a highly flammable surface (e.g. paper, textiles, etc.) or in flammable surroundings. There is a risk of fire due to the charger heating up during charging.

Take care if you touch the charger during charging. Wear protective gloves. The charger can become extremely hot, particularly at high ambient temperatures.

The e-bike battery must not be left unattended while it is charging.

Supervise children during use, cleaning and maintenance. You must ensure that children do not play with the charger.

Children and persons who are not able to use the charger safely due to their limited physical, sensory, or mental capabilities, or lack of experience and/or knowledge must not use it unsupervised or without instruction by a responsible person. If not, there is a risk of incorrect use and injury.

3.3 RECHARGEABLE BATTERY

Remove the battery from the e-bike before you start working on the e-bike (e.g. inspection, repair, fitting, maintenance, work on the chain), transport it by car or plane or if you are not going to use it for extended period of time. There is a risk of injury if the e-bike system is activated unintentionally.

Do not open up the battery as you risk causing a short circuit.

Protect the battery from heat (e.g. including continuous direct sunlight), fire and being submerged in water. Do not store or operate the battery in close proximity to hot or flammable objects as this pose a risk of explosion.

Keep the unused battery away from paper clips, coins, keys, nails, screws or other metal objects which could cause an electrical arc between the contacts. A short circuit between the battery contacts can cause fire or burns.

Avoid any physical loads on the battery. They may inflict damage to the battery cells and cause flammable substances to leak out.

Do not put the charger and battery down next to flammable materials. Only charge batteries when they are dry and in a fireproof place. There is a risk of fire due to heat accumulating during charging.

The e-bike battery must not be left unattended while it is charging.

If the battery is used incorrectly, liquid may leak from it. Avoid coming into contact with the liquid. Rinse off with water in the event of accidental contact. If the liquid gets into eyes, seek medical attention. Leaked liquid can cause skin irritation and burns.

Vapours may be emitted if the battery is damaged or used improperly, ventilate with fresh air and consult a doctor if you suffer any pain or discomfort. The vapours can irritate the airways.

Charge the battery with original FIT chargers only. Risk of fire cannot be ruled out if non-original FIT chargers are used.

Use the battery in e-bikes with the FIT system only. This is the only way that the battery will be protected from dangerous overloading.

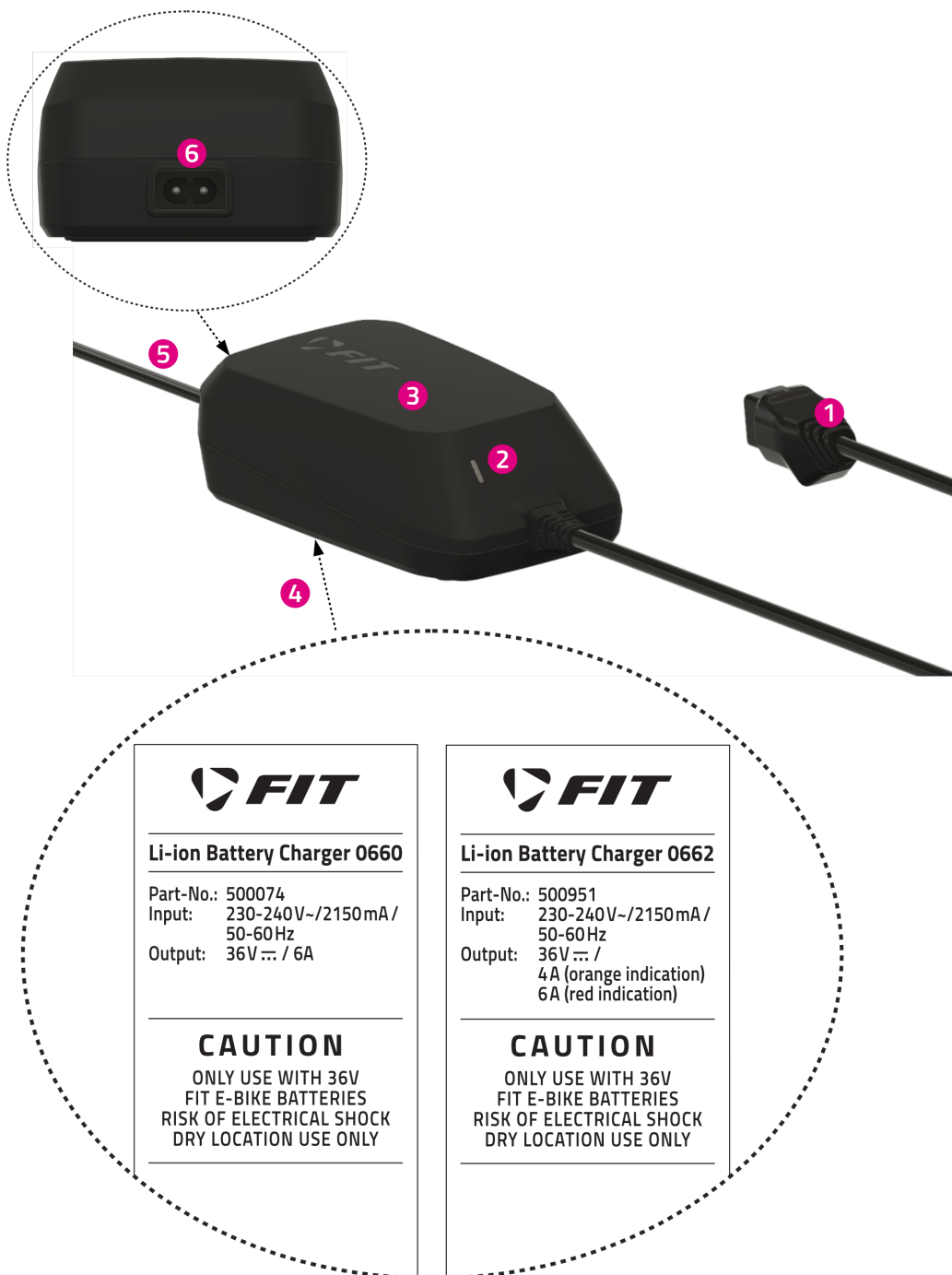
Only use original FIT rechargeable batteries which the manufacturer has approved for your e-bike. Using other batteries can result in injuries and risk of fire. FIT accepts no liability and offers no warranty if other batteries are used.

Keep the battery away from children.

Our e-bike rechargeable batteries are lithium-ion batteries which are developed and manufactured to the latest technical standards. Lithium-ion batteries have a high energy content when charged. In the event of a defect, possibly not visible on the outside, lithium-ion batteries may catch fire in very rare instances and under unfavourable conditions.

4 PRODUCT AND TECHNICAL SPECIFICATIONS

4.1 FIT STANDARD CHARGER 36V/FIT FAST CHARGER 36V



1. Charger plug
2. Charge indicator
3. Charger
4. Type label
5. Mains cable device plug
6. Device plug

4.2 PROPER USE

All check lists and instructions for actions in these operating instructions met. The charger is intended for charging FIT batteries approved for its use only and must not be used for other purposes.

4.3 IMPROPER USE

Improper use refers to use which is not described under **proper use** or goes beyond **proper use**.

4.4 TECHNICAL DATA

4.4.1 FIT STANDARD CHARGER 36V/FIT FAST CHARGER 36V

Charger		FIT Standard Charger 36V 0662	FIT Fast Charger 36V 0660 FIT Standard Charger 36V 0662 with upgrade
Product code		500951	500074 500951 & Upgrade 501342
Nominal voltage	V~	230 to 240	230 to 240
Frequency	Hz	50 to 60	50 to 60
Battery charge voltage	V=	36	36
Charging current (max.)	A	4	6
Operating temperature	°C	0 to +40	0 to +40
Storage temperature	°C	-20 to +70	-20 to +70
Protection class		IP40	IP40
Weight about	kg	0,8	0,8

5 OPERATION

5.1 INSTRUCTIONS FOR CHARGER AND BATTERY

The nameplate on the charger points to warnings and other safety information to bear in mind when handling the battery charger.

- Only use the charger included in the scope of delivery of your e-bike. This is the only charger suited to the Li-ion battery used in your e-bike.
- Fully charge the battery with the charger before you first use it to ensure full power from the battery.
- Do not connect the charger to the socket immediately after a sudden temperature change from cold to warm. There is a possibility of condensation forming on the contacts and then causing a short circuit. Wait until both charger and battery reach room temperature before connecting the charger or battery.
- The battery can be charged directly or in the e-bike without shortening its service life. Interrupting the charging process does not damage the battery.
- The battery is fitted with a temperature monitoring system, which only allows charging within the stipulated temperature range.

5.2 CHARGING OPTIONS

The battery can be charged while inserted in the e-bike or after it has been removed. Look in the e-bike manufacturer's original operating instructions to find where the e-bike charging socket is. Connect the charger to the e-bike charging socket (or directly to the battery) to charge. The charge indicator will automatically appear on the e-bike display screen if the battery is fitted into the e-bike. The display backlight will go out after a certain period of time. However, you can press the On-Off button to switch it back on again at any time.

5.3 INITIAL OPERATION



CAUTION

Check the mains voltage is correct. The voltage must match the voltage indicated on the charger nameplate.

Insert the plug on the enclosed mains cable into the socket on the charger. Connect the mains cable to the mains. Only charge the battery in compliance with all safety instructions. If this is not possible when the battery is installed, remove it from the e-bike and charge it somewhere suitable. Follow the operating instructions for the battery used.

5.4 CHARGING THE BATTERY WHEN FITTED

Connect the charger to the e-bike charging socket to charge. The battery level indicator will automatically appear on the display. The display backlight will go out after a certain period of time. However, you can press the On-Off button to switch it back on again at any time.

5.5 CHARGING THE BATTERY WHEN REMOVED

Before removing the battery, ensure that you have configured the required charge mode. You cannot change the charge mode when charging a battery that has been removed. Connect the charger to the battery charging socket to charge.

5.6 COMPLETION OF CHARGING

After charging is complete, disconnect the charger from the mains and the battery from the charger.

5.7 DISPLAY AND SETTINGS

5.7.1 CHARGE INDICATOR

Status	FIT Standard Charger 36V	FIT Fast Charger 36V FIT Standard Charger 36V with upgrade
Standby mode	Green flashing rapidly (2x a second)	Green flashing rapidly (2x a second)
Charging	Lit orange	Lit red
Charging complete	Lit green	Lit green
Fault	Red flashing (1x a second)	Red flashing (1x a second)

6 CLEANING AND SERVICING

6.1 CLEANING THE CHARGER



CAUTION

Fire and short circuit caused by water ingress

- The charger is not protected against water. Penetration by water can cause a short circuit.
- Never clean the charger with a pressure washer, water jet or compressed air.
- Keep contacts dry and clean.
- Never immerse the charger in water.
- Never use cleaning agents.
- Disconnect charger from the battery and power supply before cleaning.



NOTICE

- Never clean the charger with solvents, such as oil, thinners, alcohol or corrosion protection.
- Clean the charger's electrical connections with a dry cloth or paintbrush only.
- Wipe off the decorative sides with a damp cloth.

7 TROUBLESHOOTING, FAULT CLEARANCE AND REPAIR

7.1 TROUBLESHOOTING AND FAULT CLEARANCE

7.1.1 DRIVE SYSTEM OR DISPLAY DOES NOT START UP

If the display and/or the drive system do not start up, proceed as follows:

1. Check if the battery is inserted correctly. If not, insert the battery correctly.
2. Start the drive system.
3. If the drive system does not start, remove the battery, check the charging status and charge if necessary.
4. Clean all contacts with a soft cloth.
5. Insert the battery.
6. Start the drive system.
7. If the drive system does not start, contact the specialist dealer.



NOTICE

If the battery terminal contacts are heavily soiled/oxidized. Take your e-bike to a specialist dealer for a detailed check.

7.2 BATTERY ERROR

Symptom	Cause	Remedy
The battery discharges very quickly.	The battery may be at the end of its useful life.	Replace old battery with new one.
The battery cannot be recharged.	Is the charger mains plug firmly connected to the socket? Is the charger plug firmly connected to battery or the charging socket on the e-bike? Is the connection terminal for the charger, charger adapter or battery dirty?	<ol style="list-style-type: none"> 1. Disconnect the charger mains plug. 2. Insert the mains plug. 3. Start charging. 4. If the battery still won't recharge, disconnect the charger plug. 5. Insert charger plug. 6. Start charging. 7. If you are still unable to recharge the battery, wipe the connection terminals with a dry cloth to clean them. 8. Start charging. 9. If the battery still won't recharge, contact your specialist dealer.
The battery does not start charging when the charger is connected.	The battery may be at the end of its useful life.	Replace old battery with new one.
The battery and charger become hot.	The battery or charger temperature may have exceeded the operating temperature range.	<ol style="list-style-type: none"> 1. Interrupt charging process (disconnect charger from mains and battery). 2. Wait a moment. 3. Start charging. 4. If the battery is too hot to touch, there might be a problem with the battery. Contact your specialist dealer.
The charger is hot.	If the charger is used continuously to charge batteries, it may become hot.	<ol style="list-style-type: none"> 1. Wait a moment. 2. Start charging.
The LED on the charger does not light up.	Is the charger plug firmly connected to battery?	<ol style="list-style-type: none"> 1. Check the connection for any contaminants. 2. Insert charger plug. 3. Contact your specialist dealer if there is no change.

Symptom	Cause	Remedy
	Is the battery fully charged?	<ol style="list-style-type: none"> 4. Disconnect the charger mains plug if there is no change. 5. Insert the mains plug. 6. Start charging. 7. Contact your specialist dealer if the LED on the charger still does not light up.
The battery cannot be removed.		Contact your specialist dealer.
The battery cannot be inserted.		Contact your specialist dealer.
Fluid is leaking from the battery.		Observe all the warnings in the section on Safety.
There is an unusual smell.		<ol style="list-style-type: none"> 1. Remove the battery from the e-bike immediately. 2. Contact the fire service.
Fumes are emitted from the battery.		<ol style="list-style-type: none"> 3. Observe all the warnings in the section on Safety. 1. Remove the battery from the e-bike immediately. 2. Contact the fire service. 3. Observe all the warnings in the section on Safety.

7.3 REPAIR

Special expertise and tools are required for many repairs. That is why only a specialist dealer may perform repairs.

7.3.1 ORIGINAL PART

The individual e-bike parts have been carefully selected and matched to one other. Only original parts must be used for maintenance and repair. Observe the operating instructions for the new components.

8 RECYCLING AND DISPOSAL

8.1 DISPOSAL



Mechanical and electrical equipment, accessories and packaging should be recycled in an environmentally sound manner. Don't throw them in the garbage!



Only for EU countries: According to European Directives 2012/19/EU, 2006/66/EC and their transposition into national law, defective or unusable waste electrical and electronic equipment, rechargeable batteries and batteries must be collected separately and recycled in an environmentally sound manner.