



—Produkte
Products

Prüfbericht - Nr.: <i>Test Report No.:</i>		CN24EDNZ 001		Seite 1 von 23 <i>Page 1 of 23</i>	
Auftraggeber: <i>Client:</i>		SWFT Emobility LLC 2 Skyline Drive Hawthorne, NY 10532 USA			
Gegenstand der Prüfung: <i>Test item:</i>		Electric Bike			
Bezeichnung: <i>Identification:</i>		See model list		Serien-Nr.: <i>Serial No.:</i> Engineering samples	
Wareneingangs-Nr.: <i>Receipt No.:</i>		170375293		Eingangsdatum: <i>Date of receipt:</i> 2024-04-07	
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of test item at delivery:</i>				Good for testing and checking	
Prüfört: <i>Testing location:</i>		TÜV Rheinland (GuangDong) Co., Ltd. No.199 Kezhu Road, GZ Science City, Guangzhou 510663, P.R. China			
Prüfgrundlage: <i>Test specification:</i>		ANSI/CAN/UL 2849:2022			
Prüfergebnis: <i>Test Result:</i>		Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>			
Prüflaboratorium: <i>Testing Laboratory:</i>		TÜV Rheinland (Shenzhen) Co., Ltd. 1F East & 2-4F, Cybio Technology Building, No. 1, No. 16 Keijibei 2nd Road. High Tech Industrial Park North, Nanshan District, 518057, Shenzhen, China			
Geprüft/ Tested by:		Kontrolliert/ Reviewed by:			
					
2024-05-29 Jam Chen / PE		2024-05-29 Sailing Li / TC			
Datum <i>Date</i>	Name <i>Name</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name <i>Name</i>	Unterschrift <i>Signature</i>
Sonstiges/ Other Aspects: 1. This file is issued for test report, including 2 attachments: Attachment 1: Photo document (10 pages); Attachment 2: CDF (2 pages).					
Abkürzungen:		Abbreviations:			
<i>P(ass) = entspricht Prüfgrundlage</i>		<i>P(ass) = passed</i>			
<i>F(ail) = entspricht nicht Prüfgrundlage</i>		<i>F(ail) = failed</i>			
<i>N/A = nicht anwendbar</i>		<i>N/A = not applicable</i>			
<i>N/T = nicht getestet</i>		<i>N/T = not tested</i>			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.					
<i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>					

Report Reference No.: CN24EDNZ 001

TEST REPORT UL 2849:2022 Electrical Systems for eBikes	
Report Reference No	See cover page
Tested by (printed name and signature)	See cover page
Approved by (printed name and signature)	See cover page
Date of issue	See cover page
Testing Laboratory Name	See cover page
Address	See cover page
Testing location	See cover page
Address	See cover page
Applicant's Name	See cover page
Address	See cover page
Test specification	
Standard	See cover page
Test procedure	Test report
Non-standard test method	N/A
Test Report Form No	N/A
TRF originator	TUV Rheinland (Shenzhen) Co., Ltd.
Master TRF	Dated May 2018
Test item description	Electric Bike
Trademark	SWFT
Manufacturer	EUROSUN TECHNOLOGY LIMITED UNIT 5, 9/F., HEWLETT CENTRE, 54 HOI YUEN ROAD, KWUN TONG, KOWLOON, HONG KONG
Factory	TONGTU BICYCLE (GUANGZHOU) CO., LTD No.13Fuyuan Yilu, Shitang Industrial, XinyaStreet, Huadu, Guangzhou

Report Reference No.: CN24EDNZ 001

Copy of marking plate:

Nameplate:

NAME: ELECTRONIC BICYCLE
MODEL: SWFT-RX-BLK
COMPANY NAME: SWFT Emobility LLC
CHARGER: 42 V, 2.0 A
BATTERY: 36 Vdc, 7.8 Ah
CLASS 2 E-BIKE / 350 W MOTOR
CONTACT: WWW.RIDESWFT.COM
Conforms to UL STD 2849 MADE IN CHINA

Brand: SWFT printed at eBike body



Manufacture date code: YYMM means year and month, included in serial number.



Remark:

1. For models: SWFT-RX-XXX (XXX can be letters A to Z indicate appearance color).

Copy of Safety Instructions:

SAFETY INSTRUCTIONS

Motorized e-bikes are new to most riders so in the interest of safe cycling make sure you read, understand, and follow the instructions in this manual.

This manual contains important safety, signal words such as **DANGER**, **WARNING**, **CAUTION**, **IMPORTANT**, and **NOTE** or **NOTICE**. These are important signal words telling you to pay special attention to that text as rider safety is involved.

This symbol will appear in areas of critical rider safety. Pay special attention to the words **DANGER** and **WARNING** as failure to do so can result in serious injury or death to the rider or others.

CAUTION notes will indicate instructions that need to be followed to prevent injury, mechanical failure, or damage to the e-bike. They also indicate a hazardous situation, which, if not avoided, can cause minor or moderate injury.

NOTE or **NOTICE** or **IMPORTANT** specify special interest notes. Pay close attention to these as your safety and that of your e-bike is involved.

IMPORTANT: Read the **BEFORE RIDING** section and check that all parts are working as stated in the manual. If you understand how the e-bike operates, you will ensure the vehicle's best performance. When you read this manual, compare the illustrations to your e-bike. Learn the location of all controls and parts and their functions. **KEEP THIS MANUAL FOR FUTURE REFERENCE.**

CAUTION: Before you ride the e-bike, check the brakes and other parts of the bike. Make sure all parts are assembled correctly, securely tightened, and working properly. Take your first ride in a large, open, level area away from traffic.

DO NOT RIDE YOUR E-BIKE WITHOUT FIRST SECURING AND FASTENING ALL HARDWARE CORRECTLY.

Make sure you read this complete manual before riding your e-bike. Failure to do so, or failure to follow its guidelines could lead to serious injury or death.

Brake pads and rotors get very hot during use and could burn skin. The edges can also be very sharp and cut skin. Do not touch the brake pads or rotors directly after riding your e-bike.

Proper use of your brake is vital to ensure safe, efficient stopping. To avoid misuse and potential injury, do not apply sudden or excessive force to your brakes. Apply your brakes gradually and give yourself enough room to come to a complete stop safely.

Different localities and countries have different laws governing riding on public roads, and you should check with local officials to ensure you are

complying with these laws

Brakes do not work as well under wet conditions as they do when dry. It is recommended that you do not ride your e-bike in wet weather, as there are electronic components of your e-bike that may be damaged if exposed to water.

Wet conditions will require a longer distance to stop. Brake earlier and avoid sudden stops when riding in wet conditions.

When you ride in low-visibility conditions such as fog, dusk, or at night, vision could be impaired, which could lead to a collision. Wear bright reflective clothing when riding in poor lighting conditions and use lights.

WARNING

There may be additional risk to injury if you use your e-bike incorrectly. This includes, but is not limited to:

- Riding e-bike over debris or obstacles
- Performing stunts
- Riding on off-road terrain
- Riding fast
- Racing other riders
- Riding in an unusual manner

The aforementioned examples add stress to each part of your e-bike and can lead to long term damage of the e-bike. Damage to your e-bike can lead to an accident or increase your risk of injury. To decrease your risk of injury, operate your e-bike correctly.

IMPORTANT

Do not ride the e-bike without the battery pack. The battery pack must be on the e-bike while riding or else the motor and safety lights will not function when needed.

Check to see that your wheels are securely fastened and that your helmet is securely fastened.

Protect the battery docking connector. When the battery pack is removed, apply a protective cover to prevent corrosion and damage to the connector.

Remove the battery pack from the e-bike and store it elsewhere in the vehicle during your transport.

Always respect local transportation laws when riding your e-bike.

Lithium battery packs of this size and power are considered "Dangerous Goods, Class 9." When transporting, regulations may restrict the transport of separate lithium batteries in some places.

WARNING!

Tampering or modifying the electric circuit system may cause a shock, fire or explosion and permanently damage the system. Exposed wiring and circuitry in the charger may cause electric shock. Always keep the charger housing closed.

Copy of Safety Instructions:

WARNING!

SEEK IMMEDIATE MEDICAL ATTENTION IF YOU ARE EXPOSED TO ANY SUBSTANCE THAT IS EMITTED FROM THE BATTERY PACK.

This equipment is not intended to be used at ambient temperatures less than -20°C (-4°F) or above ambient temperatures of 40°C (104°F)."

The battery is intended to be charged when the ambient temperature is between 0°C (32°F) and 35°C (95°F)

SAFETY PRECAUTIONS

- To reduce the risk of injury, close supervision is necessary when the product is used near children.
- If the e-bike is not to be used for an extended period of time, you may need to recharge the battery every 1 month to maintain the battery life.
- Ensure that the screws on the front and back tires are locked firmly before each ride.
- Check to ensure the tires are not worn..
- Check to ensure all connections are maintained on your e-bike.
- Ensure the brake cables are well lubricated. It is suggested you lubricate brakes every 6 months
- Ensure all gears move smoothly.
- Make sure there are no frayed cables, loose connections, missing fasteners or axle/lug nuts.
- For your safety, always wear a helmet that meets CPSC or CE safety standards. In the event of an accident, a helmet can protect you from serious injury and in some cases, even death.
- Obey all local traffic laws. Obey red and green lights, one-way streets, stop signs, pedestrian crosswalks, etc..
- Ride with the traffic, not against it.
- A crash can put extraordinary stress on your e-bike's components, possibly causing them to fail prematurely. Components suffering from stress fatigue can fail suddenly, causing loss of control, or serious injury.

CARE & MAINTENANCE

- Do not expose the e-bike to liquid, moisture, or humidity to avoid damage to the electrical system.
- Do not use abrasive cleaning solvents to clean the e-bike.
- Do not expose the e-bike to extremely high or low temperatures as this will shorten the life of the electrical system, destroy the battery, and/or distort certain plastic parts.
- Do not dispose of the e-bike in a fire as it may explode or combust.
- Do not expose the e-bike to contact with sharp objects as this will cause scratches and damage.
- Do not let the e-bike fall from high places, as doing so may damage the internal circuitry.
- Do not attempt to disassemble the e-bike.
- Use only the specified charger provided.
- Ensure the e-bike chain is well lubricated for optimal performance.
- To minimize tire wear and for maximum riding safety, comfort and handling, maintain recommended tire air pressure which can be found on the side wall of all tires. Use a reliable tire air pressure gauge to check for proper inflation before every ride. At the same time, inspect tires for excessive wear and cracks. Replace tires if necessary.

PREFACE

Congratulations on the purchase of your new e-bike! With proper assembly and maintenance it will offer you years of enjoyable riding!

IMPORTANT: Carefully read and follow this manual (and any other materials included with this bike) before riding. Please retain this manual for future use. If this bike was purchased for a child, it is the responsibility of the purchaser to verify the bike has been properly assembled, and that the user has been properly trained and instructed in use of the bike. This manual is provided to assist you and is not intended to be a comprehensive manual covering all aspects of maintaining and repairing your bicycle. The bicycle you have purchased is a complex piece of equipment that must be properly assembled and maintained in order to be ridden safely.

If you have any doubts about the assembly or your ability to properly assemble and maintain the bicycle. You must have it assembled and maintained by a professional bicycle mechanic.

WARNING: E-bikes are fun to ride but can be dangerous to use. The user or consumer assumes all risk of personal injuries, damage, or failure of the bicycle or system and all other losses or damages to themselves and others and to any property arising as a result of using the bicycle.

WARNING

DO NOT DISASSEMBLE, MODIFY OR REPLACE ELECTRICAL PARTS.

If you need to change any parts, please consult a professional bicycle mechanical or contact customer service for additional help.

NOTE: YOUR INSURANCE POLICIES MAY NOT PROVIDE COVERAGE FOR ACCIDENTS INVOLVING THE USE OF THIS BICYCLE. TO DETERMINE IF COVERAGE IS PROVIDED YOU SHOULD CONTACT YOUR INSURANCE COMPANY OR AGENT.

DANGER: Failure to properly assemble and maintain your bicycle could result in serious injury or death to the rider.

This manual contains important safety, performance and service information. The purpose of this manual is to help you use your e-bike safely in the manner intended and allow you to enjoy the benefits it offers for years to come. Please read it carefully before you take your first ride on your e-bike and keep it in a safe place for reference.

Copy of Safety Instructions:

OWNER RESPONSIBILITY

IMPORTANT: Reading and following the information and instructions in this manual are essential to the ability of the owner or any other persons allowed to use this bicycle in order to ride safely.

1. It is the responsibility of the owner or in the case of a younger rider the parents of the rider to be certain all assembly instructions have been followed, even if the bike has been assembled by the seller, manufacturer, or a professional assembly company.

2. Brakes are essential to safety. Be sure they are checked and working properly before each use. Remember that any mechanical system changes condition during use and must be maintained and checked before each use.

3. Rules for bicycle use (bicycle laws) vary from location to location so be certain the rider knows and understands the rules that apply to bicycle usage in all areas where the bicycle will be used. Wearing a helmet, light or reflective clothing, using lights and reflectors are examples of rules which may exist and which make sense as rider safety precautions at all times.

4. Know how to operate the bicycle and all equipment on it before first use and be certain anyone allowed to use the bike knows how to properly and safely use the bike as well.

5. There are many different types of bicycles and often these types are designed for different uses. Make sure you know what type unit you have and do not exceed its service limitations. Be sure you check and understand the bicycle classifications set in this manual, including size of the unit that is proper for the rider to insure good control during use. Riders who are too small or large may have control problems. Do not overload a unit with a rider that is too heavy or too large, and do not attempt to carry extra passengers, packages or loads on the bicycle. Do not use street bikes for off road riding.

6. Your electric bike is water-resistant, but must be properly maintained to preserve this condition. Please do not submerge the bicycle or any electric components in water. Water entering electric components can cause a short circuit and damage the electric components with possible injury to the rider and others.

7. The battery's performance can be effected by its environment. Generally speaking, battery's discharge performance is better in a higher temperature. Electric power will drop by more than 1/3 when the temperature is below 32°F (0°C). Thus, this e-bike's riding distance per charge will become shorter in winter or cold areas. It returns to normal / optimal when the temperature is higher than 68°F (20°C).

8. Do not put any metal objects in charge hole or battery circuit, it may cause a short circuit, start a fire, or cause an explosion with personal injury or property damage.

CAUTION: For your safety you must carefully read this manual and follow its instructions. Your bicycle may come with additional instruction sheets that cover features unique to your bike. Please ensure that you read and become familiar with their contents and retain them with this manual for future reference. Remember bicycles, in most areas, are subject to the same laws, rules, and regulations as motor vehicles.

Always wear a CPSC approved helmet when riding your bike.

Learn and follow local and state traffic use laws.

Any major service or adjustments on your bike not covered in this manual should be carried out by a professional bicycle mechanic. If you wish to make adjustments yourself, this manual contains important tips on how to do it.

CAUTION: Any adjustments you make are entirely at your own risk. Do **NOT** use your bike for freestyle and stunt riding, jumping or competitive events. Even if you are riding a mountain bike, you should know that off-road use or any similar activities can be dangerous, and you assume the risk for personal injury, damages or losses incurred from such use. Do not ride your bike when any part is damaged or not working properly.

You must, for your safety and the safety of other users, consult a professional bicycle mechanic for any questions on repairs or maintenance.

WARNING

As with all mechanical components, the bicycle is subjected to wear and high stresses. Different materials and components react to wear or stress fatigue in different ways. As your bicycle ages, you should inspect it more frequently to look for deformed, cracked, bent, or loose components. Such conditions may lead to sudden failure. This may possibly cause injuries to the rider. If something is cracked or broken, do not ride until repairs have been made.

ALWAYS WEAR A HELMET! IT COULD SAVE YOUR LIFE



A properly fitting, CPSC-approved bicycle helmet should be worn at all times when riding your e-bike.

The correct helmet should:

- be lightweight and comfortable
- have good ventilation
- cover the forehead and fit correctly
- be securely fastened on the rider

Copy of Safety Instructions:

RIDING PRECAUTIONS

1. WARNING - ON AND OFF ROAD CONDITIONS: The condition of the riding surface is very important to your safety. If the surface is wet, or has sand, leaves, small rocks or other loose debris on the surface where you plan to ride, carefully decrease the speed of the bicycle and ride with extra caution. It will take a longer time and more distance to stop. Apply the brakes sooner and with less force. Always apply the rear brake first allowing time and distance for it to take effect. Then follow by cautiously applying the front brake, in order to maintain control of the bicycle. Rapid front brake application first may cause a front pitch over or fall. Learn to use your brakes properly under controlled conditions until you learn proper braking under all road conditions.

2. NOTICE: State and federal regulations require a full set of reflectors. Some state and local laws may require that your bike be equipped with a warning device, such as a horn or bell and most states require a light. The manufacturer and many legal authorities **DO NOT** approve or encourage riding at night. Vision is quite limited at dawn, dusk and at night for bike riders, motorists and by-standers. If you must ride at night, take extra precautions, use front and rear lights, wear flashers on your arms, wear light-colored clothing, and plan your route to ride in well lighted areas avoiding heavy traffic areas.

3. NOTE: Always wear shoes when riding a bicycle and avoid loose fitting clothes. Wear a cuff band or trouser clip to keep pants or other loose clothing from getting caught in the chain wheel. Long sleeves, long pants, gloves, eye protection, a CPSC-approved helmet, elbow and knee pads are recommended.

Helmet use is required by law in many states and is always a good idea for your safety.

4. CAUTION: WET WEATHER WARNING: Check your brakes frequently. The ability to stop is critical to your safety. Roads are slippery in wet weather so avoid sharp turns and allow more distance for stopping. Brakes become less efficient when wet. Leaves, loose gravel and other debris on the road can also lengthen stopping distance. If at all possible, do not ride in wet weather. Vision and control are impaired, creating a greater risk of accidents and injury.

5. CAUTION: A bicycle rider's best defense against accidents is to be alert to road conditions and traffic in the area. Do not wear anything that restricts your vision or your hearing.

6. When riding, ALWAYS WEAR A CPSC-APPROVED BIKE HELMET. It may save your life.

7. Obey all traffic regulations. Most traffic regulations apply to bike riders as well as automobile operators. Observe all state and local traffic regulations, signs and signals. Check with your local police station on bicycle licensing and inspection, and where it is legal to ride your bike.

8. Keep to the RIGHT SIDE of the road. Follow the traffic flow in a straight line close to the curb. Watch out for opening car doors and cars moving in and out of traffic. Use caution at intersections.

9. Never carry passengers. This is dangerous and it makes the bicycle harder to control. Never carry anything that can inhibit your ability to control the bicycle or see the road.

10. When riding in pairs or in larger groups, form a single line along the right side of the road. Set up a sensible distance between riders. Don't follow too closely.

11. Always be alert. Animals or people may dart in front of you. Give pedestrians the right-of-way. Don't ride too close to pedestrians, and don't park your bicycle where it can get in the way of foot/vehicle traffic.

12. Be careful at all intersections. Slow down and look both ways before crossing.

13. Use hand signals. Always let other drivers and pedestrians know what you are going to do. Signal 100 ft. before turning unless your hand is needed to control the bike.

14. WARNING: NIGHT TIME OPERATION: We do **NOT** recommend riding your bike at night. If you have an emergency that requires you to ride at night you must have proper lights and reflectors. **NEVER** ride at night without a helmet, taillight, a white front reflector, a red rear reflector, pedal reflectors and white wheel reflectors. You must be able to clearly see the surface where you are riding and be seen by others.

15. Never hitch rides. Never hold onto moving vehicles while riding. Never stunt ride or jump on your bike.

16. ON AND OFF ROAD OPERATION: Avoid the following road hazards: drain grates, pot holes, ruts, soft road edges, gravel, leaves (especially when they are wet), uneven pavement, railroad crossings, manhole covers, curbs, speed bumps, puddles, and debris as all have an effect on your riding and may result in loss of control. Adjust your speed and the way you use your brakes if you must ride in such areas.

17. If any components becomes loose while riding, (STOP!!) immediately and tighten, or bring to a mechanic for repair.

Report Reference No.: CN24EDNZ 001

General remarks

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
 “(see Enclosure #)” refers to additional information appended to the report.
 “(see appended table)” refers to a table appended to the report.
 Throughout this report a point is used as the decimal separator.

Summary of testing:

All models were tested and fulfilled the test specifications.

The tested model was complied with the test standards ANSI/CAN/UL 2849:2020 R6.22.

Test Description	ANSI/CAN/UL 2849:2020 R6.22. Clause	-
Input Current	27	-
Temperature test	28	-
Abnormal operation tests	32	-
Impact test	33	-
Mold Stress	34	-
Flexing Test	35	-
Ingress Protection Tests	36	-
Permanence of Marking	37	-
Vibration test	38	-
Strain Relief	39	-
Startup Assistance Mode Test	40	-
Motor Assistance Control	41	-
Low Voltage Limited Energy Circuits	8.3	-

Particulars: test item vs. test requirements

Equipment mobility: Portable
 Operating condition: Continuous
 Mass of equipment (kg).....: N/A

Test case verdicts

Test case does not apply to the test object : N/A
 Test item does meet the requirement: P(ass)
 Test item does not meet the requirement: F(ail)

Testing

Date of receipt of test item: 2024-04-07
 Date(s) of performance of test: 2024-04-07 ~ 2024-05-25

General product information:

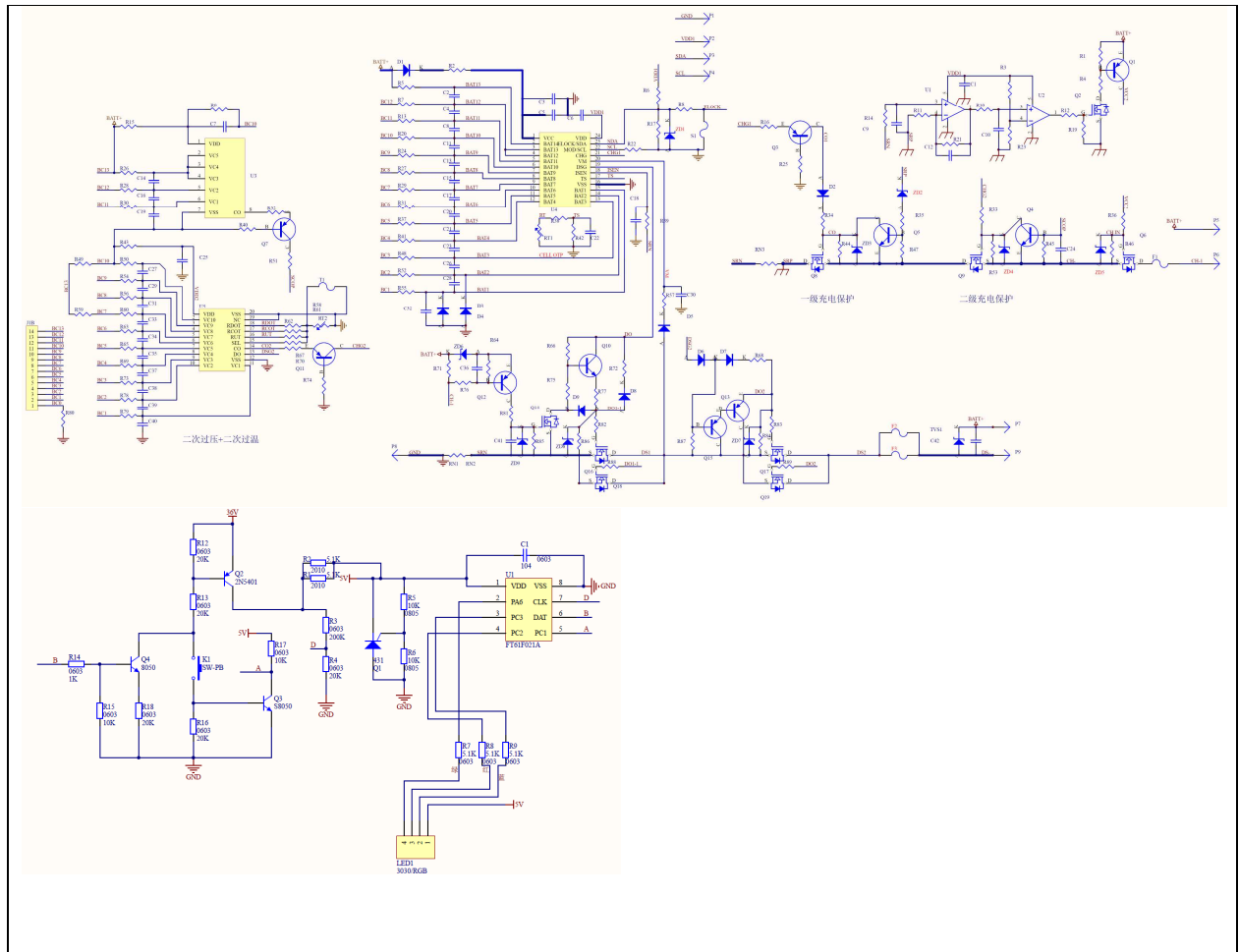
This report is intended to evaluate Electrical Systems for eBikes only.
 The product covered by this report is a electric bike, supplied by one approved battery pack charged by one specific UL listed battery charger.

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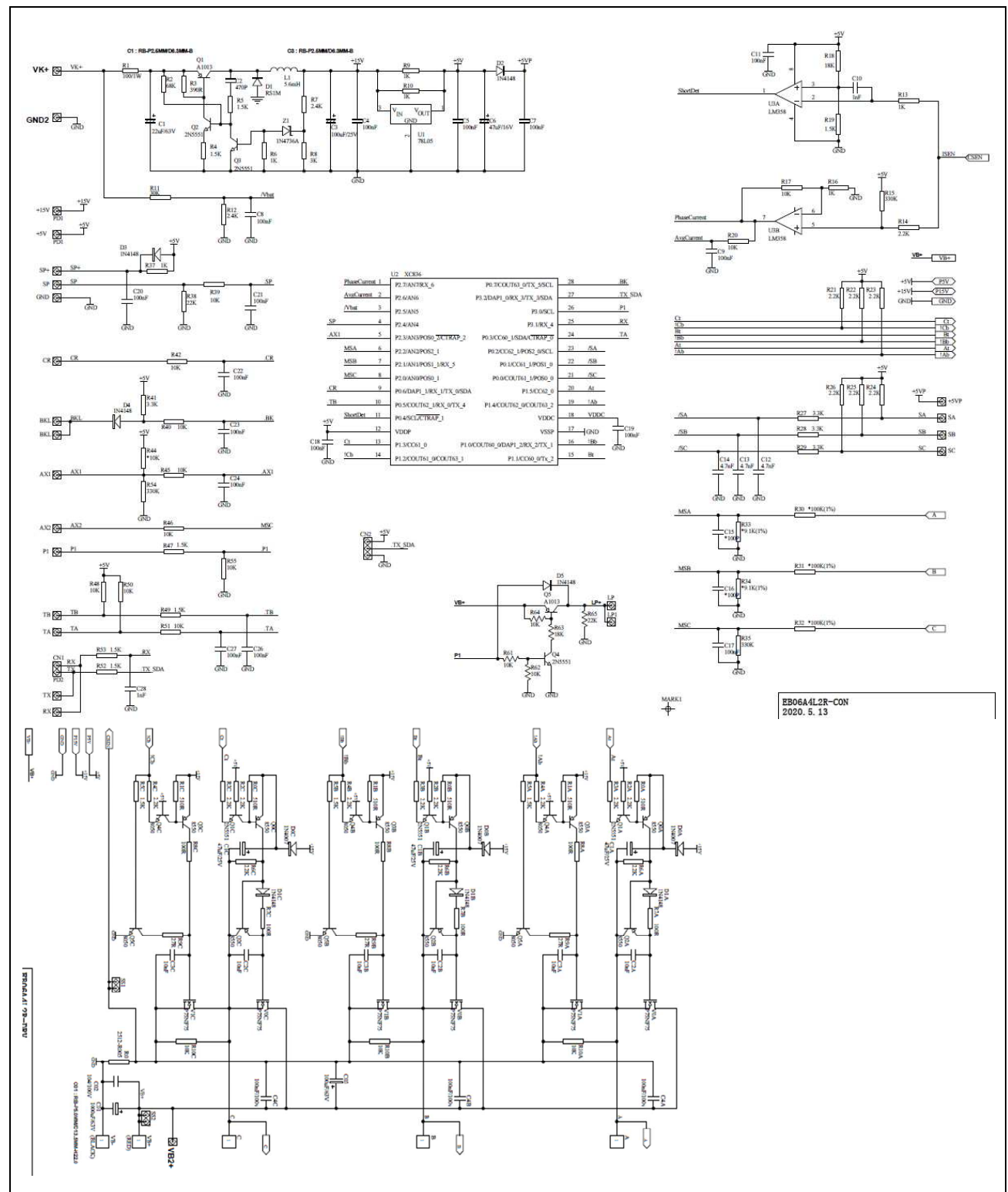
Electrical Rating	
Models No.	Rating
SWFT-RX-XXX	Charging voltage and current: DC42V 2.0A max. Battery pack: 36Vdc 7.8Ah.
(XXX can be letters A to Z indicate appearance color).	Max assistant speed: 20 MPH. Maximum Weigh load: 220 lbs.
Model Similarity:	
NA	

Report Reference No.: CN24EDNZ 001

1. Circuit Diagram of Battery Pack



2. Circuit Diagram of Motor Controller



Report Reference No.: CN24EDNZ 001

Attachment 1: Photo document

Product: Electric bike

Type designation: SWFT-RX-XXX



Figure 1.: Overall view



Report Reference No.: CN24EDNZ 001

Attachment 1: Photo document

Product: Electric bike

Type designation: SWFT-RX-XXX

Figure 2.: Overall view



Figure 3.: Overall view

Report Reference No.: CN24EDNZ 001

Attachment 1: Photo document

Product: Electric bike

Type designation: SWFT-RX-XXX



Figure 4.: Overall view



Figure 5.: Overall view

Report Reference No.: CN24EDNZ 001

Attachment 1: Photo document

Product: Electric bike

Type designation: SWFT-RX-XXX

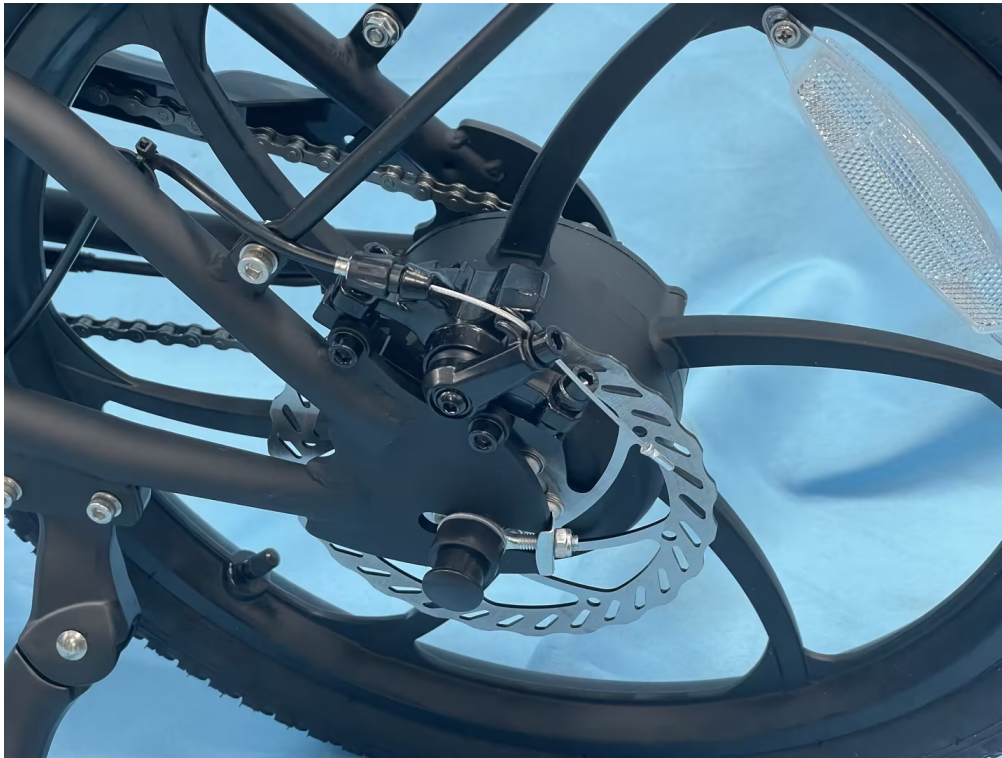


Figure 6.: Motor view



Figure 7.: Internal view

Report Reference No.: CN24EDNZ 001

Attachment 1: Photo document

Product: Electric bike

Type designation: SWFT-RX-XXX



Figure 8.: Internal view

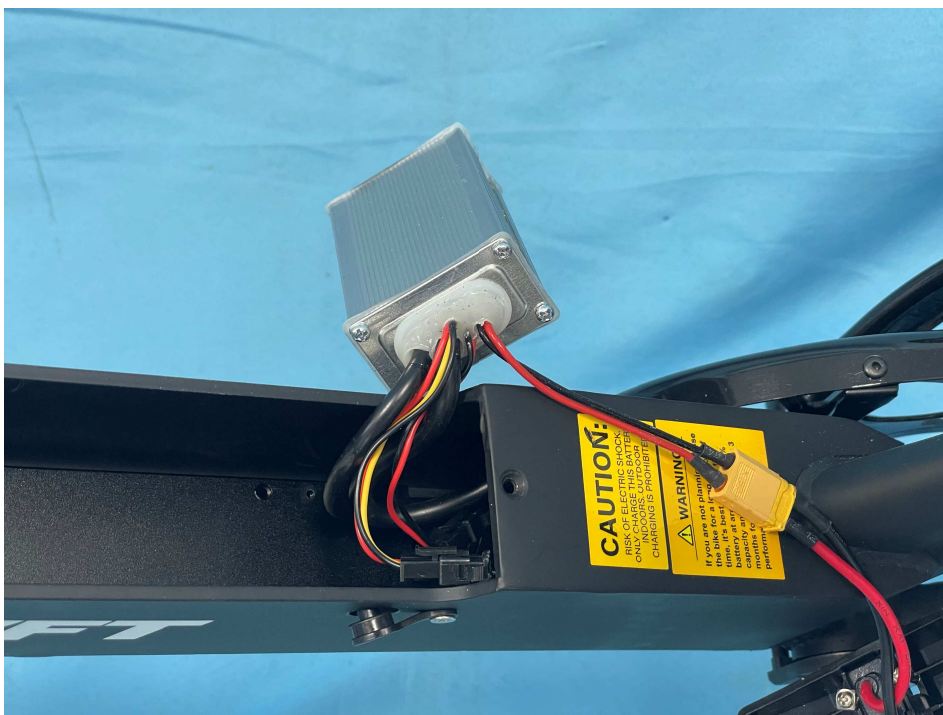


Figure 9.: Bottom view

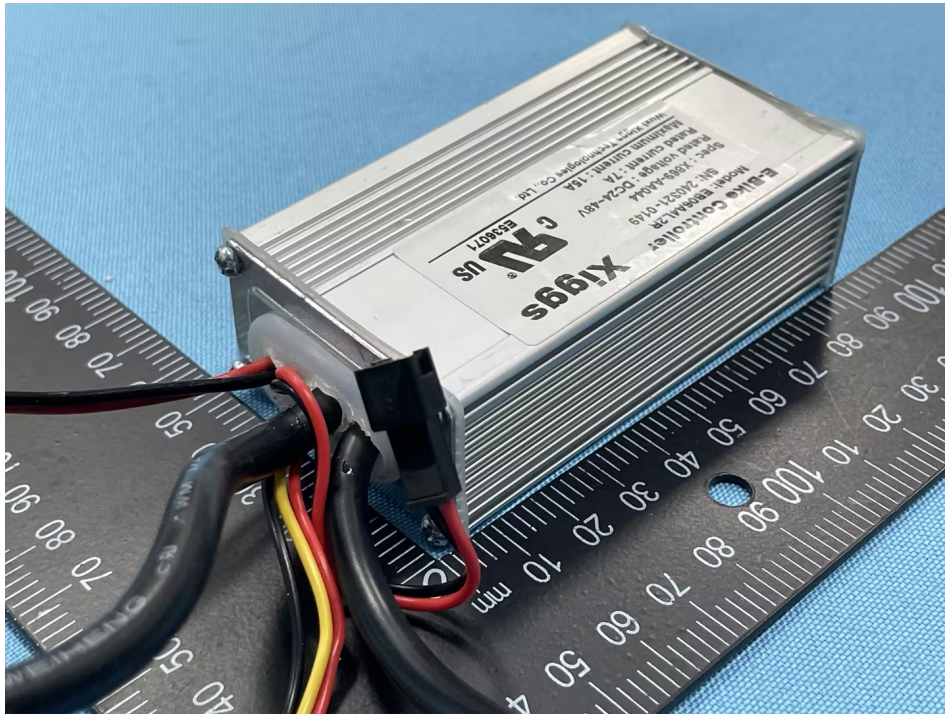


Figure 10.: Controller view

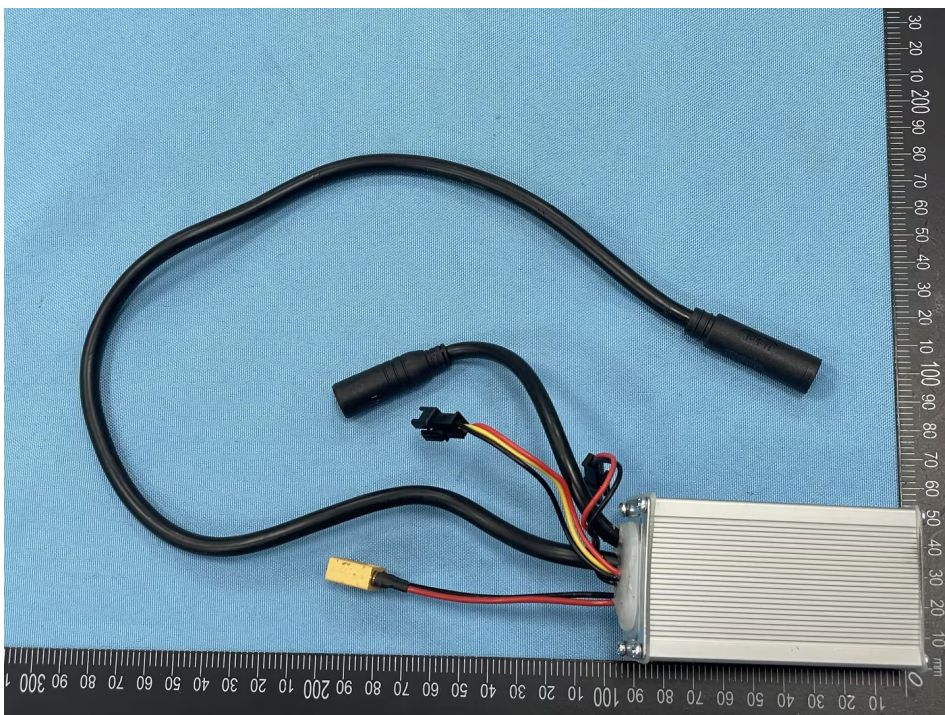


Figure 11.: Controller view

Attachment 1: Photo document

Product: Electric bike

Type designation: SWFT-RX-XXX

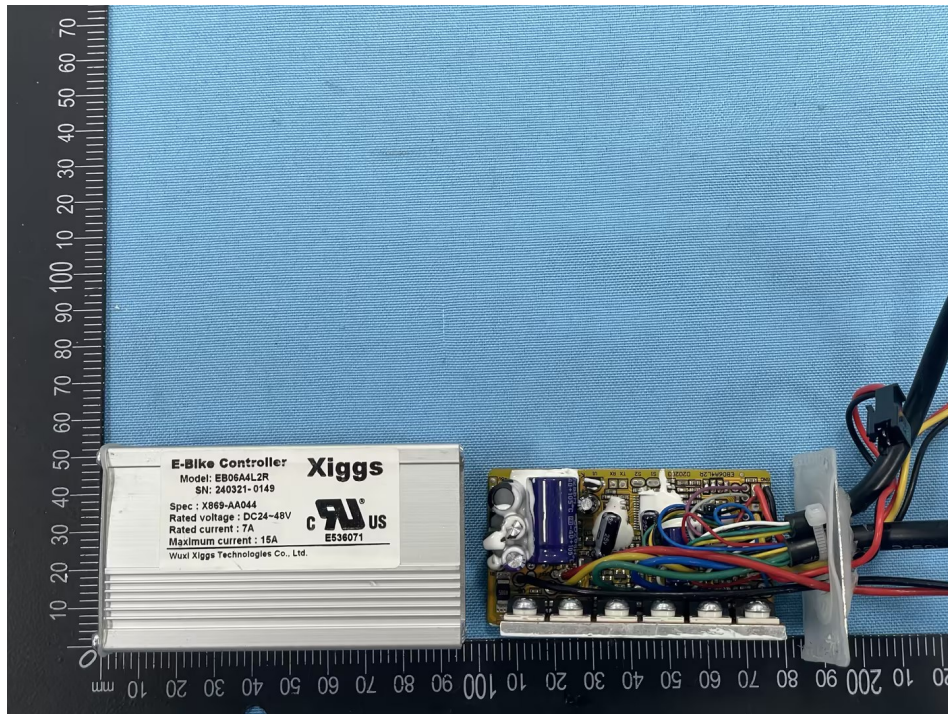


Figure 12.: Controller internal view

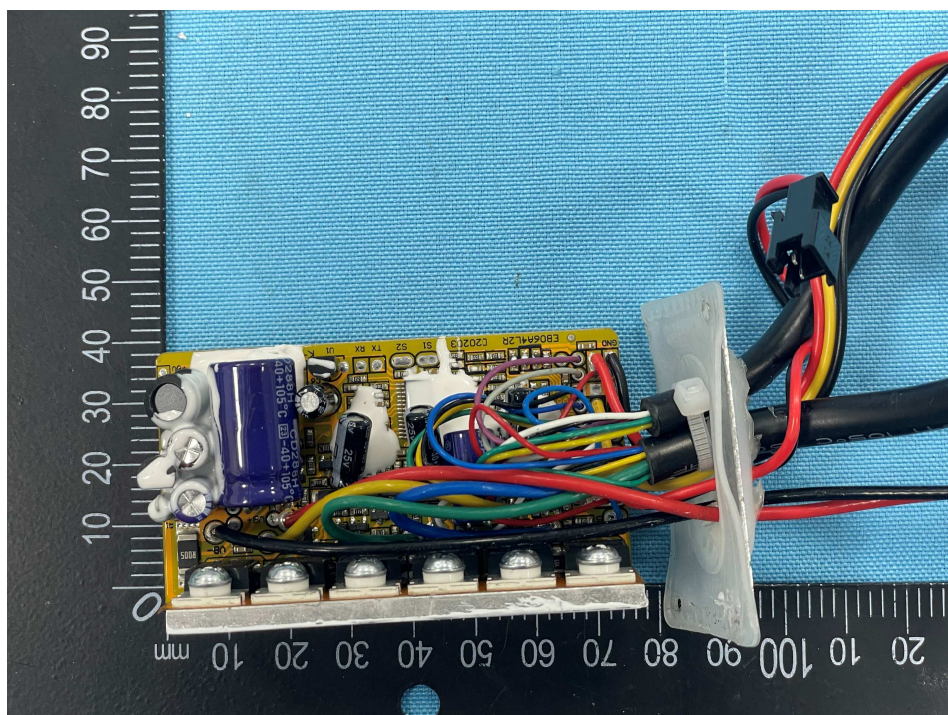


Figure 13.: Controller PCB top view

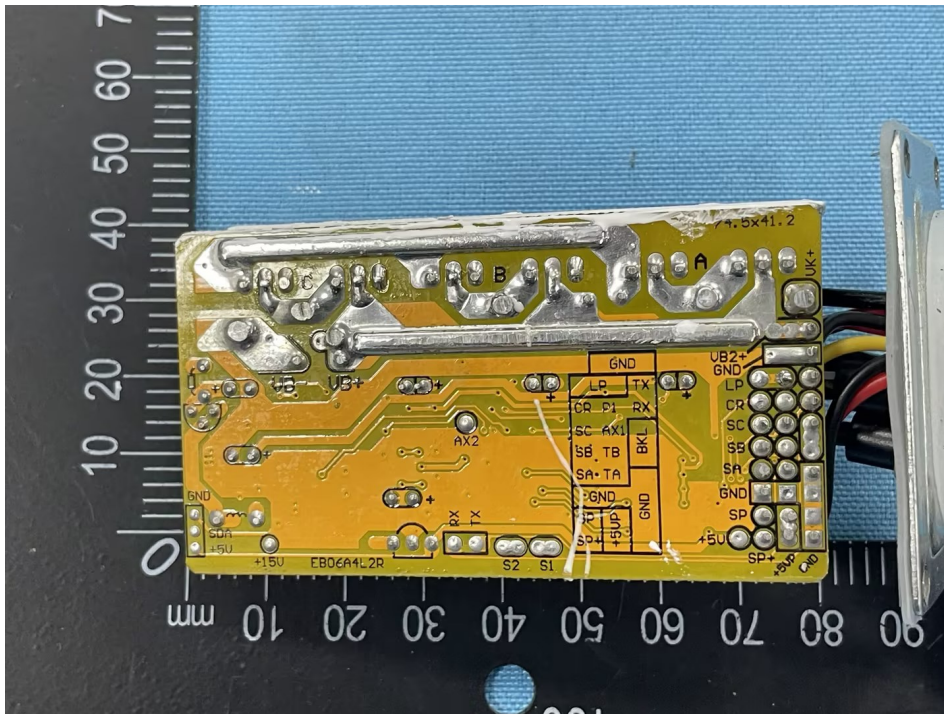


Figure 14.: Controller PCB bottom view



Figure 15.: Battery view

Report Reference No.: CN24EDNZ 001

Attachment 1: Photo document

Product: Electric bike

Type designation: SWFT-RX-XXX

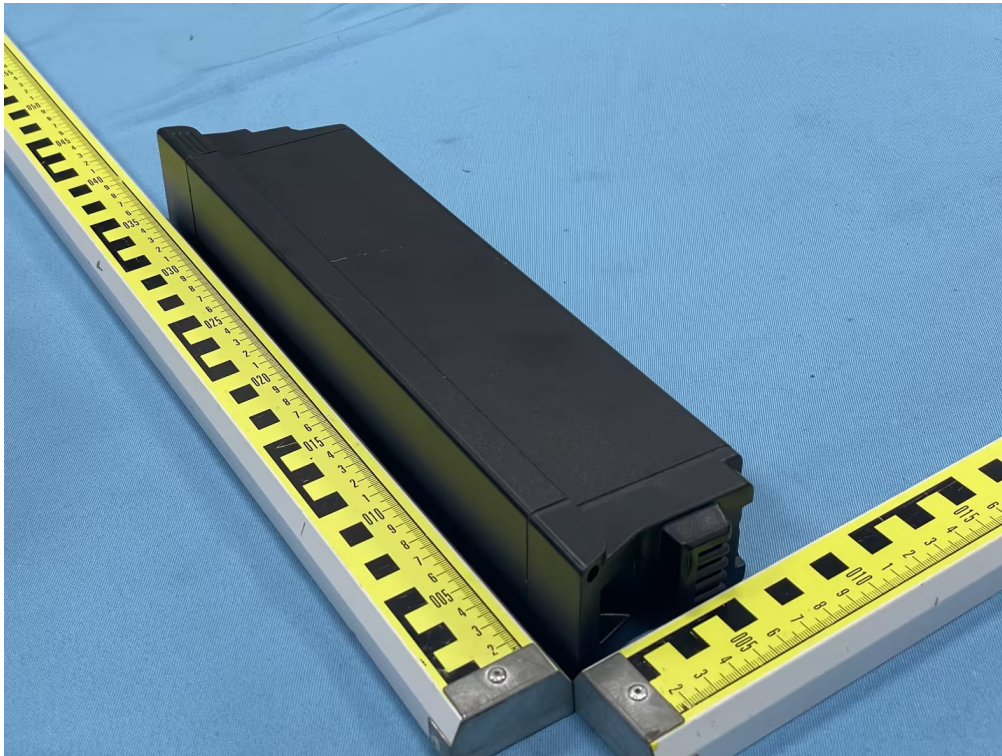


Figure 16.: Battery view



Figure 17.: External adaptor view

Attachment 1: Photo document

Product: Electric bike

Type designation: SWFT-RX-XXX



Figure 18.: External adaptor view

Attachment 2: CDF**Product:** Electric bike**Type designation:** SWFT-RX-XXX

Item No.	Object/part no.	Manufacturer/ Trademark	Type/M ode	Technical Data	Standard	Mark(s) of Conformit y
1.	Frame	SHUNTONG HARDWARE MANUFACTURING CO., LTD	ST-203850 05	Steel. Minimum thickness: 1.8 mm, spray paint.	--	--
2.	Battery Charger	SHENZHEN FUYUANDIAN POWER CO LTD	FY-420200 0	Input: 100-240Vac, 50/60Hz, 2.5A. Output: 42.0VDC, 2.0A	UL 60950-1, CAN/CSA C22.2 No. 60950-1	UL E350715
3.	Battery pack	Shenzhen SOSLLI Technology Co., Ltd.	KT-E55	36V, 7.8Ah, 280.8Wh.	UL/ULC 2271	TUV Rh Report# CN241U80 001
Components in Motor assembly below						
4.	Motor	SUZHOU LVANXING TECHNOLOGY CO., LTD	LAX-A135	36V20"350W.	UL 2849	Test with appliance
5.	Motor Housing	Various	Various	ADC12. Aluminium alloy.	--	--
6.	Winding	ZHEJIANG SANXING ELECTRICAL TECHNOLOGY CO., LTD	QA-*/180	180C°.	UL 1446	UL E327855
7.	Slot Liner	CHANGZHOU JINLONG INSULATION MATERIAL CO LTD	6641 DMD#\$ @-F	Suitable for use in class F.	UL 1446	UL E345386
8.	Slot wedge and end spider	CELANESE INTERNATIONAL CORP	FR50(+)(f1)	Suitable for use in class F.	UL 1446	UL E41938
9.	Insulation tube/sleeving	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR-H	Flexible heat shrinkable Polyolefin tubing. 600V, 125C°, VW-1.	UL 224	UL E203950
10.	Internal wires (motor)	Kunshan Julet Electronic Co Ltd	20464	14AWG, 150Vac.	UL 758	UL E530526
11.	Printed Wiring Board	GUANGDE XINKE ELECTRONICS CO LTD	XK-3	Single layer printed wiring boards. 130C°, V-0.	UL 94, UL 796	UL E231590
	Alternative	Various	Various	Single layer printed wiring boards. 130C°, V-0.	UL 94, UL 796	UL

Attachment 2: CDF**Product:** Electric bike**Type designation:** SWFT-RX-XXX

Item No.	Object/part no.	Manufacturer/ Trademark	Type/Mode	Technical Data	Standard	Mark(s) of Conformity
12.	NTC Transistor	NANJING SHIHENG ELECTRONICS CO LTD	MF58-502F3950	Resistance at 25°C: 10 k ohm, T _{moa} : 250°C Class C3.	UL 1434, UL 60730-1	UL E240991
13.	Insulation sheet	CELANESE INTERNATIONAL CORP	70G33L(+)	HB, 130°C.	UL94, UL 746, CSA C22.2 NO. 0.17	UL E41938
Components in Display below						
14.	PCB	Various	Various	94V-0, 130°C.	UL 796	UL
15.	Display enclosure	CELANESE INTERNATIONAL CORP	70G33L(+)	HB, 130°C.	UL94, UL 746, CSA C22.2 NO. 0.17	UL E41938
Components in Motor Driver as below						
16.	Motor Driver	Wuxi Xiggs Technologies Co.,Ltd	EB06A4 L2R	Ctroller for brushless motor, rated 42~48V, current limiting: 15A.	UL 2849	UL E536071
17.	Internal wiring 1 of Motor Driver	YANG ZHOU DE YOU WIRE & CABLE CO LTD	20167	For the connections of motor and motor driver. AWM 20167, 17AWG*3C +24AWG*6C. 300V, 105°C minimum.	UL 758	UL E318368
		Various	20167	For the connections of motor and motor driver. AWM 20167, 17AWG*3C +24AWG*6C. 300V, 105°C minimum.	UL 758	UL
18.	Internal wiring 2 of Motor Driver	DONGGUAN ZHONGZHEN ENERGY TECHNOLOGY CO.,LTD	3135	16AWG. 600V, 200°C, VW-1.	UL 758	UL E318368
		Various	3135	16AWG. 600V, 200°C, VW-1.	UL 758	UL
19.	Internal wiring 3 of Motor Driver	Zhejiang Top Wire Technology Co Ltd	2095	Multiple-conductor, thermoplastic insulation. 300V, 80°C	UL 758	UL
		Various	2095	Multiple-conductor, thermoplastic insulation. 300V, 80°C	UL 758	UL