APPLICATION FOR TEST REPORT
UL 2849
On Behalf of

Prepared For:	Shenzhen Tuxiang Technology Co.,Ltd.
Address:	301, Weinakang Factory, Luotian Community, Yanluo Str, Bao'an District, Shenzhen, China.
Product Name:	Electric Bicycle
Model:	K800, K8, K808, KS600, KF9, K802, K820, K860, KF10, KF11, KF6, KS9, KS5, KS8, K801, K880, KF8, KS300, MX300, C6, XDC600, S11, V3, T750plus, X2000Plus, X3000P1us, G550, G650, XF4000, XC4000
Trade Mark:	KETELES
Manufacturer:	Shenzhen Tuxiang Technology Co.,Ltd.
Address:	301, Weinakang Factory, Luotian Community, Yanluo Str, Bao'an District, Shenzhen, China.
Prepared By:	Shenzhen Wuxiang Testing (Group) Co., Ltd. Building B, Xinbaosheng, No.233, Xixiang Street, Bao'an District, Shenzhen, China
Test Date:	March 24, 2023 to March 30, 2023
Date of Report:	March 30, 2023
Report No.:	WUX202303240956UL

Wuxiang Testing (Group) Lab Report Approved

UL 2849 TEST REPORT

Standard: UL 2849-2016			
Report No.:	WUX202303240956UL	Client:	Shenzhen Tuxiang Technology Co.,Ltd.
Product:	Electric Bicycle	Rated data:	Adaptor Input: AC100-240V~ , 2.2A(Max.), 50/60Hz Output: DC 54.6V⎓2.0A
Project Engineer:	Tony BI		
Test Engineer:	Rust He	Protection class	--
Application Date	March 24, 2023	Protection against moisture:	Min. IP44
Requested Date	March 30, 2023	Construction:	With battery 48V,23AH
Re-test	☐	Operation mode	Continous
Full-test	☒	Weight:	＞20kg
Tested Model :	K800	Sample No.	1#
Should the heating test be done in heating oven?	☐ Yes °C ☒ No		
Altitude during operation (m)	☐ Up to 2000 ☒ No		
Altitude of test laboratory (m)	☒ below 2000 ☐ No		
Other information:.....	Outdoor used, With battery 48V,23AH, With over charge protection, Over discharge protection, over current protection and temperature protection.		

Lab Use Only			
Lab Start Date	March 24, 2023	Lab Finish Date	March 30, 2023
Ambient Temperature, °C	24.1	Relative Humidity, %	49

Remarks:

Tested by(Engineer：Rust He): Rust He **Checked by Manager:Tony BI):** Tony BI

Wuxiang Testing (Group) Lab Report Approved

****Modified History****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2023/03/30	Rust He

No.	Clause(s)	Test(s)	Remark	Comment
1	7	Connection to Supply Source	UL 1310	Pass
2	8	Personnel Protection Systems	UL 2231-1	Pass
3	9	Bonding of the Vehicle	Screw to fix.	Pass
4	10	Double Insulation	UL 1310 for adaptor	Pass
5	11	Safety Circuits and Safety Analysis	UL 60730-1	Pass
6	12	Enclosures	Min.IPX4	Pass
7	13	Materials	UL 746C RTI>80℃ V-1, UL94	Pass
8	14	Flammability	V-1, UL94 Passed by UL 1310 for adaptor	Pass
9	15	Electrical Spacings and Separation of Circuits	Passed by UL 1310 for adaptor	Pass
10	16	Printed Wiring Boards	UL 796	Pass
11	17	Wiring and Terminals	Non-replaceable batteries No Terminals outside	Pass
12	18	Transformers	Passed by UL 1310 for adaptor	Pass
13	19	Fuses	Passed by UL 1310 for adaptor	Pass
14	20	Capacitors		N/A
15	21	Strength of Enclosures		Pass
16	22	Sharp Edges		Pass
17	23	Battery Packs	UL 2580	Pass
18	24	Operator Interface	UL 60950-1	Pass
19	25	Motors and Motor Controllers	UL 1004-1	Pass
20	26	Mounting		Pass
21	28	Input Test	See the table	Pass
22	29	Leakage Current	See the table	Pass
23	30	Capacitor Discharge Test	See the table	Pass
24	31	Temperature Test	See the table	Pass
25	32	Dielectric Strength Test	See the table	Pass

26	33	Isolation Resistance Test	See the table	Pass
27	34	Humidity Conditioning	See the table	Pass
28	35	Abnormal Operations Tests	See the table	Pass
29	36	Vibration Test	See the table	Pass
30	37	Impact Test	See the table	Pass
31	38	Environmental Tests	See the table	Pass
32	39	Motor Assistance Control - Pedalec		Pass
33	40	Startup Assistance Mode Test		Pass
34	41	Maximum Assistance Speed		Pass
35	42	Mold Stress	See the table	Pass
36	43	Permanence of Marking	See the table	Pass
37	45-46	MARKINGS		Pass
38	48-52	INSTRUCTIONS		Pass

Spacings (15)

13	Electrical Spacings					Pass
Clearance (cl) and creepage distance (cr) at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Opposite polarity of battery	--	54.6	1.6	>2.0	1.6	>2.0
Input to Enclosure	--	--	--	--	--	--
Primary component to accessible enclosure (RI)	--	--	--	--	--	--
Primary trace to secondary trace under transformer (T1) (RI)	--	--	--	--	--	--
Primary winding to secondary winding of transformer (T1) (RI)	--	--	--	--	--	--
Supplementary information						
Note(s): --						

Protection of Users – Accessibility of Terminals (17)

17	***Accessibility probe***				Pass
Location	Dimension of opening	Tester	Observations	Pass	Fail
Opening	No opening	Articulate probe	Can't touch Live parts and dangerous moving parts	√	--

INPUT TEST (28)

Method:

EUT is operating at: U=Un, F=Fn.
Load of the EUT is under maximum normal load.
The input current and wattage to the EUT shall be measured.
Multiple rated voltages or rated voltage range, each rated voltage shall be measured.
The current and power shall be taken under steady state conditions.

Result:

28	TABLE: Electrical data (in normal conditions)	Pass

[X] Max. Available load [ ] All interfaces and wireless max. load transmission
[ ] 1/8 of 100% or [ ] Max. available non-clipped output power _____
[ ] _____

U (V)	F (Hz)	I (A)	Irated (A)	P (W)	Fuse #	Ifuse (A)	Condition/status
110V	50	1.58	2.2	71.9	F1	1.58	Charge the battery
110V	60	1.58	2.2	71.9	F1	1.58	Charge the battery
240V	50	0.87	2.2	71.6	F1	0.87	Charge the battery
240V	60	0.88	2.2	71.6	F1	0.88	Charge the battery
DC54.6V	--	1.8	2.0	64.9	--	--	Charge the battery

Voltage regulator: CTT01S ; Power meter: CTT15S; DC Electrical load: CTT48S;

Leakage Current (29)

29	**Leakage Current**		Pass
Test voltage:	120V/ 60Hz		
Measured point:	U_2 (mV)	(mA)	Limit (mA)
Line and output accessible terminal	--	0.13	0.5
Neutral and output accessible terminal	--	0.13	0.5
Line and accessible enclosure surface	--	0.09	0.5
Neutral and accessible enclosure surface	--	0.09	0.5
Oscilloscope, Measuring circuit for touch current according to Annex D, Leakage Current Tester			

Capacitor Discharge Test (30)

30	**Discharge of Capacitors in Equipment**			**P**
Test voltage:	240V/ 50Hz			
Condition	τ calculated (s)	τ measured (ms)	t u→ 0V (ms)	Comments
L and N Positive half cycle	--	--	196	Limit: 196Vpeak x 37% = V After 1s, 8V

Temperature Test (31)

Method:

EUT primary is U=Un, F=Fn, operated under normal max. load.
Temperatures of parts are measured by thermal couplers, windings are measured by resistance change method.
Measuring place shall be a point close to the heat source.
The test is continued until thermal stable.
Voltage is changed lower or higher tolerance without rest of time.

Result:

31	**TABLE: Thermal requirements,**						Pass
	Supply voltage (V) .....:	DC54.6V	--	--	--	--	—
	Ambient Tmin (°C) .....:	24.2	--	--	--	--	—
	Ambient Tmax (°C) ..... :	24.8	--	--	--	--	—
	Max. load	Charge battery	--	--	--	--	
	Model	--	--	--	--	--	
Maximum measured temperature T of part/at::		T (°C)					Allowed Tmax (°C)
Enclosure of Adaptor		--	--	--	--	--	95
PCB near IC		51.9	--	--	--	--	130
Internal wire		38.8	--	--	--	--	75
Capacitor		43.6	--	--	--	--	105
Connector		42.9	--	--	--	--	70
Battery		36.1	--	--	--	--	60
Enclosure of battery		32.8	--	--	--	--	95
--							

Supplementary information:

Temperature T of winding:	t1 (°C)	R1 (Ω)	t2 (°C)	R2 (Ω)	T (°C)	Allowed T_{max} (°C)	Insulation class

--	--	--	--	--	--	--	--

Supplementary information:
- NF: No Fire
- NE: No Explosion
- NL: No Leakage
- NR: No Rupture
- NS: No Electric shock hazard
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.
- Leakage: visible escape of liquid electrolyte.- Others (please explain)

Result:

31	**TABLE: Thermal requirements,**						Pass
	Supply voltage (V) .....:	AC120V 60Hz	--	--	--	--	—
	Ambient Tmin (°C) .....:	24.4	--	--	--	--	—
	Ambient Tmax (°C) ..... :	24.9	--	--	--	--	—
	Max. load	Charge battery	--	--	--	--	
	Model	--	--	--	--	--	
Maximum measured temperature T of part/at::		T (°C)					Allowed Tmax (°C)
Enclosure of Adaptor		56.1	--	--	--	--	95
PCB near IC		48.6	--	--	--	--	130
Internal wire		34.7	--	--	--	--	75
Capacitor		46.3	--	--	--	--	105
Connector		44.2	--	--	--	--	70
Battery		35.5	--	--	--	--	60
Enclosure of battery		36.1	--	--	--	--	95
--							

Supplementary information:							
Temperature T of winding:	t1 (°C)	R1 (Ω)	t2 (°C)	R2 (Ω)	T (°C)	Allowed T_{max} (°C)	Insulation class
--	--	--	--	--	--	--	--

Supplementary information:
- NF: No Fire
- NE: No Explosion
- NL: No Leakage
- NR: No Rupture
- NS: No Electric shock hazard
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.
- Leakage: visible escape of liquid electrolyte.- Others (please explain)

Result:

31	**TABLE: Thermal requirements,**						Pass
	Supply voltage (V) .....:	Power by full Battery	--	--	--	--	—
	Ambient Tmin (°C) .....:	24.2	--	--	--	--	—
	Ambient Tmax (°C) ..... :	24.9	--	--	--	--	—
	Max. load	Max. load	--	--	--	--	
	Model	--	--	--	--	--	
Maximum measured temperature T of part/at::		T (°C)					Allowed Tmax (°C)
Enclosure of Adaptor		--	--	--	--	--	95
PCB near IC		58.1	--	--	--	--	130
Internal wire		43.3	--	--	--	--	75
Capacitor		46.7	--	--	--	--	105
Connector		--	--	--	--	--	70
Battery		40.2	--	--	--	--	60
Enclosure of battery		38.5	--	--	--	--	95
Winding of Motor		60.4					70
Enclosure of Motor		52.1					90

Supplementary information:

Temperature T of winding:	t1 (°C)	R1 (Ω)	t2 (°C)	R2 (Ω)	T (°C)	Allowed T_{max} (°C)	Insulation class
--	--	--	--	--	--	--	--

Supplementary information:

- NF: No Fire
- NE: No Explosion
- NL: No Leakage
- NR: No Rupture
- NS: No Electric shock hazard
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.
- Leakage: visible escape of liquid electrolyte.- Others (please explain)

Dielectric Voltage-Withstand Test (32)

Method:

The test is made while the EUT is still in well-heated condition
Make sure the power switch of the EUT is in ON position.
Thin material can be tested in room temperature.
The test voltage is a.c. of 50 or 60 Hz or d.c. voltage equal to peak value of the a.c. voltage.
Test voltage is applied gradually raised from zero to the specified voltage and held at that value for 60s.
Insulation breakdown is: Current flows through the insulation rapidly increases in an uncontrolled manner; that is the insulation does not restrict the flow of the current.
Corona discharge or a single momentary flashover is not regarded as insulation breakdown.
A test incorporating reinforced insulation and lower grades insulation (BI, SI), care is taken not to overstress BI or SI.
Where capacitors (X or Y capacitors) are across the insulation, d.c. voltage is recommended for the test.
Discharge resistors shall be disconnected before testing.

Result:

32	**Electric strength test**		Pass
Test voltage applied between:		Test voltage (V)	Breakdown
input and enclosure		AC1480 60Hz	No
Input and output		AC1480 60Hz	No

Isolation Resistance Test (33)

Method:

The test is made while the EUT is still in well-heated condition
Make sure the power switch of the EUT is in ON position.
Thin material can be tested in room temperature.
The test voltage is d.c. 500 voltage
Test voltage is applied gradually raised from zero to the specified voltage and held at that value for 60s.

33	TABLE: Insulation resistance measurements		Pass
Insulation resistance R between:		R (MΩ)	Required R (Ω)
DC input and enclosure		>100 MΩ	50000Ω
L/N and enclosure		>100 MΩ	50000Ω
L/N and output		>100 MΩ	50000Ω

Humidity Conditioning (34)

34	Humidity Conditioning Test		Pass
Test voltage:	48h, 90%R.H., 32°C		
Measured point:	Test V (V)	Measured	Limit
Input and Enclosure	DC500V	>100MΩ	30000Ω
Neutral and output accessible terminal	DC500V	>100MΩ	30000Ω
Line and accessible enclosure surface	DC500V	>100MΩ	30000Ω
Neutral and accessible enclosure surface	DC500V	>100MΩ	30000Ω
Oscilloscope, Measuring circuit for touch current according to Annex D, Leakage Current Tester			
34	Dielectric Voltage-Withstand Test		Pass
Measured point:	Test V (V)	Breakdown	Limit
Line and output accessible terminal	AC 1480V	No	100mA
Neutral and output accessible terminal	AC 1480V	No	100mA
Line and accessible enclosure surface	AC 1480V	No	100mA
Neutral and accessible enclosure surface	AC 1480V	No	100mA
Oscilloscope, Measuring circuit for touch current according to Annex D, Leakage Current Tester			

Abnormal Operation Test (35)

35	Abnormal Operations and Fault Conditions Test	**Pass**

Requirement	Result	Remarks
During the test:		
Fire propagates beyond the EUT?	~~Yes~~ / No	--
Molten metal emitted?	~~Yes~~ / No	--
Enclosures deform to cause non-compliance with the standard?	~~Yes~~ / No	--
After the test:		
Electric strength test on reinforced insulation breakdown?	~~Yes~~ / No	--
Electric strength test on Basic insulation breakdown?	~~Yes~~ / No	--
SC: Short-circuited; **OC:** Open-circuited; **OL:** Over-load; **BK:** Block; **RP:** Reverse-polarity; **LK:** Lock; **DC:** Disconnect; **OVC:** Overcharging under Max. available charging voltage or 106% rated voltage; **ED:** Excessive discharging		
Voltage regulator, power meter, Data Acquisition/Switch Unit , Oscilloscope, Oscilloscope Probe, Digital Micro-ohmmeter, Withstanding Voltage Tester, DC Electrical load;		

42 Abnormal Operations and Fault Conditions Test	**Pass**
Ambient temperature (°C) ……:	25.0°C

Comp./ fault		Result / Observation	
U1 Pin 1-8	Test voltage: _DC54.6V_ Duration: _10min_ SC No: __ I/P current (A): _1.34 _ I/P power (W): __	☐ Become steady, output power / current _____ ☐ Shut down immediately, and _____ damaged, can't be recovered, repeated ____ times. ☐ Protected, can be recovered.	☐ Fuse opened immediately ☐ Fuse opened after __ ☐ T.F opened after __ ☐ see raw data __ ☒ No hazards Remark: --
U1 Pin 2-6	Test voltage: _DC54.6V_ Duration: _10min_ SC No: __ I/P current (A): _1.30_ I/P power (W): __	☐ Become steady, output power / current _____ ☐ Shut down immediately, and _____ damaged, can't be recovered, repeated ____ times. ☐ Protected, can be recovered.	☒ Fuse opened immediately ☐ Fuse opened after __ ☐ T.F opened after __ ☐ see raw data __ ☒ No hazards Remark: --

U2 Pin 3-2	Test voltage: _DC54.6V_ Duration: _10min_ SC No: __ I/P current (A): _0.03_ I/P power (W): _0_	☐ Become steady, output power / current _____ ☒ Shut down immediately, and ____No_ damaged, can't be recovered, repeated ____ times. ☐ Protected, can be recovered.	☐ Fuse opened immediately ☐ Fuse opened after __ ☐ T.F opened after __ ☐ see raw data __ ☒ No hazards Remark: --
U2 pin 3-4	Test voltage: _DC54.6V_ Duration: _10min_ SC No: __ I/P current (A): _0.02_ I/P power (W): _0_	☐ Become steady, output power / current _____ ☒ Shut down immediately, and __No__ damaged, can't be recovered, repeated ____ times. ☐ Protected, can be recovered.	☐ Fuse opened immediately ☐ Fuse opened after __ ☐ T.F opened after __ ☐ see raw data __ ☒ No hazards Remark: --
Battery	Test voltage: _DC54.6V_ Duration: _10min_ SC No: _ _ I/P current (A): _0_ I/P power (W): _0_	☐ Become steady, output power / current _____ ☒ Shut down immediately, and ___No___ damaged, can't be recovered, repeated ____ times. ☐ Protected, can be recovered.	☐ Fuse opened immediately ☐ Fuse opened after __ ☐ T.F opened after __ ☐ see raw data __ ☒ No hazards Remark:
Adaptor output	Test voltage: AC120V_ Duration: _10min_ SC No: _ _ I/P current (A): __ I/P power (W): _0.03_	☐ Become steady, output power / current _____ ☒ Shut down immediately, and __No_ damaged, can't be recovered, repeated ____ times. ☐ Protected, can be recovered.	☐ Fuse opened immediately ☐ Fuse opened after __ ☐ T.F opened after __ ☐ see raw data __ ☒ No hazards Remark: --
Locked Motor	Test voltage: _54.6V_ Duration: _2h_ Fuse or Fuse resistor No: _ _ I/P current (A): _Max. 4.11.A_ I/P power (W): _0_	☐ Become steady, output power / current _____ ☐ Shut down immediately, and _____ damaged, can't be recovered, repeated ____ times. ☒ Protected, can be recovered.	☐ Fuse opened immediately ☐ Fuse opened after __ ☐ T.F opened after __ ☐ see raw data __ ☒ No hazards Winding of motor:80.7°C Remark: --

Vibration Test (36)

36	TABLE: Vibration tests			P
Model	OCV at start of test, (Vdc) for battery	Test frequency (Hz)	Vibration time (h)	Results
ELECTRIC BIKE	Fully	10Hz~55Hz~10Hz	1h	P
ELECTRIC BIKE	Fully	10Hz~55Hz~10Hz	1h	P
ELECTRIC BIKE	Fully	10Hz~55Hz~10Hz	1h	P

Supplementary information:
- NF: No Fire
- NE: No Explosion
- NL: No Leakage
- NR: No Rupture
- NS: No Electric shock hazard
- No loosening of parts
- Operate normally.

Impact Test (37)

37	TABLE: Strain relief test	Pass

Test part	Temperature (℃)	Duration (h)	Result
Enclosure	70	1h	Pass electrical strength

Notes:
Oven temperature shall be 10 K higher than the maximum temperature on the enclosure but not less than 70°C.

supplementary information:
- NF: No Fire
- NE: No Explosion
- NL: No Leakage
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.
- Leakage: visible escape of liquid electrolyte.- Others (please explain)

37	TABLE: Impact test Vertically			Pass
Model	weighing	Test temperature (°C)	Impact energy (J)	Results
Enclosure	0.535kg, D:50.8mm	25	6.8J	P
Enclosure	0.535kg, D:50.8mm	25	6.8J	P
Enclosure	0.535kg, D:50.8mm	25	6.8J	P
No damage.				
37	TABLE: Impact test Horizontally			Pass
Model	weighing	Test temperature (°C)	Impact energy (J)	Results
Enclosure	0.535kg, D:50.8mm	25	6.8J	P
Enclosure	0.535kg, D:50.8mm	25	6.8J	P
Enclosure	0.535kg, D:50.8mm	25	6.8J	P
No damage.				

Water Exposure Tests (38.1)

Test procedure

For IPX4, the sample is positioned under oscillating spray tubes rotating at nearly±180° from the vertical for 10 minutes. The oscillation rate is two cycles of about360° in 12 seconds. Each surface of the enclosure within the spray arch is to be tested for 1 min/m2, with no less than 5 minutes of total test timeThe flow rate again depends upon the tube size, Withstand voltage test is pass, No harmful effects

IPX4	-For IPX4, the sample is positioned under oscillating spray tubes rotating at nearly±180° from the vertical for 10 minutes. The oscillation rate is two cycles of about360° in 12 seconds. Each surface of the enclosure within the spray arch is to be tested for 1 min/m2, with no less than 5 minutes of total test timeThe flow rate again depends upon the tube size, Withstand voltage test is pass, No harmful effects	No harmful effects	Pass
supplementary information: - NF: No Fire - NE: No Explosion - NL: No Leakage - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte.- Others (please explain)			

Thermal Cycling Test (38.2)

38.2	TABLE: Heating Test				P
Sample	OCV at start of test, (Vdc)	Temperature raise rated(°C/min)	Test temperature (°C)	Duration (h)	Results
1#	Full battery	5℃/min ± 2 ℃/min	50 to -30	6h	P

Supplementary information:
supplementary information:
- NF: No Fire
- NE: No Explosion
- NL: No Leakage
- Fire: the emission of flames from a cell or battery.
- Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled.
- Leakage: visible escape of liquid electrolyte.- Others (please explain)

Measured point:	Test V (V)	Measured	Limit
Input and Enclosure	DC500V	>100MΩ	30000Ω
Neutral and output accessible terminal	DC500V	>100MΩ	30000Ω
Line and accessible enclosure surface	DC500V	>100MΩ	30000Ω
Neutral and accessible enclosure surface	DC500V	>100MΩ	30000Ω
Oscilloscope, Measuring circuit for touch current according to Annex D, Leakage Current Tester			

38.2	Dielectric Voltage-Withstand Test	Pass

Measured point:	Test V (V)	Breakdown	Limit
Line and output accessible terminal	AC 1480V	No	100mA
Neutral and output accessible terminal	AC 1480V	No	100mA
Line and accessible enclosure surface	AC 1480V	No	100mA
Neutral and accessible enclosure surface	AC 1480V	No	100mA
Oscilloscope, Measuring circuit for touch current according to Annex D, Leakage Current Tester			

Mold Stress *(42)*

42	TABLE: Strain relief test			Pass
Test part	Temperature (℃)	Duration (h)	Result	
Enclosure	70	1h	Pass Electrical strength	
Notes: Oven temperature shall be 10 K higher than the maximum temperature on the enclosure but not less than 70°C.				
supplementary information: - NF: No Fire - NE: No Explosion - NL: No Leakage - Fire: the emission of flames from a cell or battery. - Explosion: failure that occurs when a cell container or battery case opens violently and major components are forcibly expelled. - Leakage: visible escape of liquid electrolyte.- Others (please explain)				

42	TABLE: Insulation resistance measurements			Pass
Measured point:		Test V (V)	Measured	Limit
Input and Enclosure		DC500V	>100MΩ	30000Ω
Neutral and output accessible terminal		DC500V	>100MΩ	30000Ω
Line and accessible enclosure surface		DC500V	>100MΩ	30000Ω
Neutral and accessible enclosure surface		DC500V	>100MΩ	30000Ω
Oscilloscope, Measuring circuit for touch current according to Annex D, Leakage Current Tester				
42	Dielectric Voltage-Withstand Test			Pass
Measured point:		Test V (V)	Breakdown	Limit
Line and output accessible terminal		AC 1480V	No	100mA
Neutral and output accessible terminal		AC 1480V	No	100mA
Line and accessible enclosure surface		AC 1480V	No	100mA
Neutral and accessible enclosure surface		AC 1480V	No	100mA
Oscilloscope, Measuring circuit for touch current according to Annex D, Leakage Current Tester				

Permanence of Marking (43)

43	MARKING DURABILITY		Durable and legible	
Type of marking	15 seconds of water	15 seconds of petroleum	Pass	Fail
Rating label	--	--	√	--
Stop watch				

Photo documentation

Photo 1 Over view

Photo 2 Over view

Photo 3 Over view

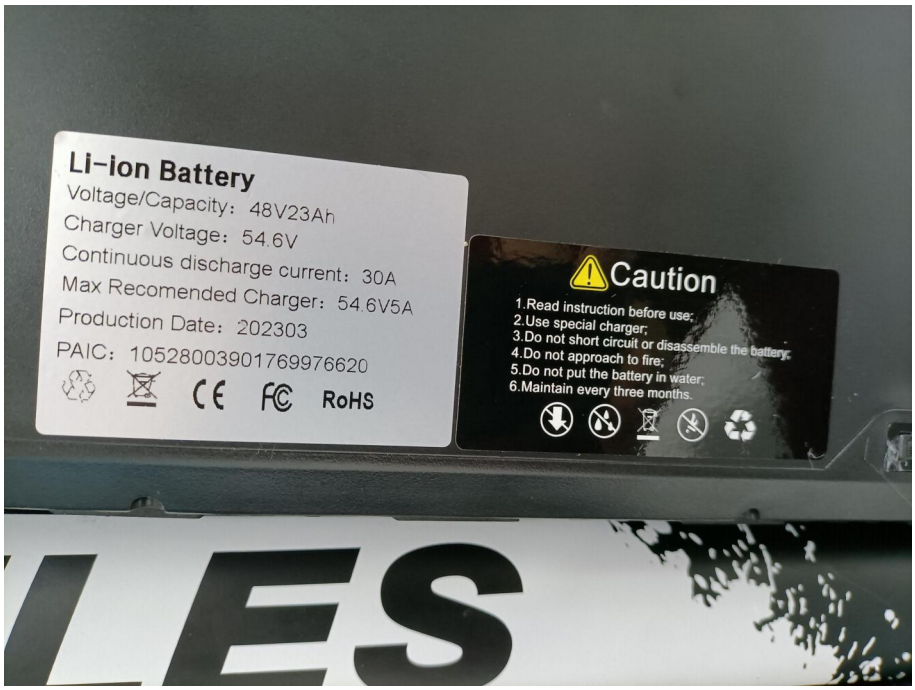

Photo 4 Over view

Photo 5 Adaptor view

Photo 6 Adaptor view

Photo 7 Over view

Photo 8 Over view

Photo 9 Over view

***** End of Report *****