

Shenzhen wanmai technology
innovation Co.,LTD

TEST REPORT

SCOPE OF WORK

Test report

REPORT NUMBER

210623203GZU-001

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Single test report _a_ May 2017



Report No.: 210623203GZU-001

TEST REPORT

Applicant	:	Shenzhen wanmai technology innovation Co.,LTD
Address	:	501, 5th Fir.BLDG 4, Pingshan Minqi Technology Park, No.65 Lishan Road Pingshan Community, Taoyuan Street, Nanshan, China
Sample Description		
Name of Sample	:	Portable Power Station
Model Number	:	Savior 300, Savior C300T, A15003
Brand Name	:	Gearfly
Sample Development Level	:	prototype
Quantity of Sample(s)	:	8
Date of Receival	:	8 Jun., 2021
Date of test Conducted	:	8 Jun., 2021 to 5 Jul., 2021
Report Issue Date	:	5 Jul., 2021
Test		
Test Requested	:	Test report for Portable Power Packs according to UL 2743.
Test Method	:	Portable Power Packs [ANSI/CAN/UL 2743:2018 Ed.2+R:30Apr2020].
Test Observation:	:	From the results of our examining and testing on the submitted samples, we are of the opinion that the submitted samples complied with the relative clause of above standard, see page 4-10.
Test Conclusion:	:	The battery pack is tested according to UL 2743, recorded in Appendix A.
Other information	:	DC Input: 19VDC, 3.15A; AC output: 110VAC, 60Hz, 300W; Type-c output: 5VDC, 3A or 9VDC, 3A or 12VDC, 3A or 15VDC, 3A or 20VDC, 3A; USB Output 1+USB Output 2: 5VDC, 2.4A; USB Output 3: 5VDC, 2.4A or 9VDC, 2A or 12VDC, 1.5A; DC Output 1+DC Output 2: 12DC, 10A; Car charger output: 12DC, 10A; Max. 400W total for all the outputs; Internal Li-ion Battery Capacity: 14.8Vdc, 20AH; Operation temperature: -10~40°C
Remark	:	This test report is only for evaluation of the specified standard clauses listed in <u>Test Requested</u> . Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

TEST REPORT

Tested by:



Kady Qin
Engineer

Approved by:



Spark He
Technical Supervisor

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The testing of this report is type tests. The requirements and tolerances permitted by this report are related to testing of a type-test sample submitted by the manufacturer for that purpose. Compliance of the type-test sample does not ensure compliance of the whole production of a manufacturer.

Possible test case verdicts:	
- test case does not apply to the test object :	N/A
- test object does meet the requirement :	P (Pass)
- test object does not meet the requirement :	F (Fail)

Factory: Shenzhen wanmai technology innovation Co.,LTD
Address: 501, 5th Fir.BLDG 4, Pingshan Minqi Technology Park, No.65 Lishan Road Pingshan Community, Taoyuan Street, Nanshan, China

The product covered by this report is a portable power pack, which contained DC/DC charging circuits, one input DC connector, DC/AC convert circuit, four USB output ports rated 5Vdc, two DC output ports rated 12Vdc,two AC output ports rated 110Vac, LED light, one built-in Li-ion polymer battery pack with 32 cells (8P4S) in series.

This product was supplied by a specified certified charger, which should be in accordance with UL 62368-1 and CAN/CSA C22.2 No. 62368-1 or UL 1310 and CAN/CSA C22.2 No. 223 or UL 1012 and CAN/CSA C22.2 No. 107. 2.

The enclosure of product was secured by tamper-proof screws, the product is intended to be used indoor only.

The wireless charging part is not considered.

TEST REPORT

Appendix A:			
HOUSEHOLD AND COMMERCIAL BATTERIES - UL 2743			
Clause	Requirement - Test	Result - Remark	Verdict
1	Scope		P
2	Units of Measurement		P
3	Components		P
4	Undated References		P
5	Glossary		P
Construction			--
6	General		P
6.1	If the operation and maintenance of a power pack by the user involves a risk of injury to persons, a risk of electric shock, or a risk of fire, means shall be provided to reduce the risk. When evaluating a power pack, consideration shall be given to reasonably foreseeable misuse of the product.		P
6.2	Power packs intended for use within a repair facility, and marked as such as indicated in 69.4, shall be provided with instructions containing the statement in 74.3 and shall be marked as shown in 70.19. Power packs that are not intended for use in a repair facility shall be marked in accordance with 70.20.		N/A
6.3	Outdoor use power packs shall be evaluated for all environmental considerations addressed by this standard and are intended to be used and stored either outdoors or indoors. Temporary outdoor use power packs shall be evaluated for exposure to rain, shall be marked in accordance with 70.20 and 70.21, and shall be provided with instructions in accordance with 74.5. Indoor use only power packs shall be marked in accordance with 70.22 and shall be provided with instructions in accordance with 74.6. Indoor use only packs need not comply with the environmental considerations in 7.5.	Indoor use only, and the relevant mark and instruction not were not submitted for checking.	N/A
6.4	For power packs not marked in accordance with 70.23, the device shall be subjected to the Vibration Test, Section 51.		P
7	Frame and Enclosure		P
7.1	General		P
7.2	Metallic enclosures		N/A
7.3	Nonmetallic enclosures	Material information: V-0, RTI: 120°C	P
	Conductive coating		N/A
7.4	Openings in enclosures		P
7.5	Environmental considerations	Indoor use only	N/A
8	Flammability of Materials	See the CDF	P
9	Assembly		P

TEST REPORT

Appendix A:			
HOUSEHOLD AND COMMERCIAL BATTERIES - UL 2743			
Clause	Requirement - Test	Result - Remark	Verdict
10	Corrosion Protection	The material:	N/A
11	Supply Connections		P
11.1	General		P
11.2	Flexible cord connection		N/A
11.2.2	Strain relief		N/A
11.2.3	Bushings		N/A
11.3	External power supplies		N/A
11.4	Vehicle adapters		N/A
11.5	Photovoltaic panels		N/A
12	Output Connections		P
12.1	General	Tested with appliance	P
12.2	Booster cable assemblies	No booster cable assemblies	N/A
12.2.1	General		N/A
12.2.2	Cables		N/A
12.2.3	Clamps		N/A
12.3	Receptacles		P
12.4	DC output connectors and USB connectors	Comply with UL 1977	P
12.5	Vehicle adapter sockets		N/A
13	Grounding		N/A
13.1	General		N/A
13.2	Grounding identification		N/A
14	Double Insulated Products		N/A
15	Current Carrying Parts		P
16	Internal Wiring		P
16.1	Mechanical protection		P
16.2	Wiring insulation		N/A
16.3	Splices and connections		P
17	Separation of Circuits		N/A
18	Insulating Materials		N/A
19	Compressors		N/A
19.1	General		N/A
19.2	Motors and thermal protection		N/A
19.3	Parts subject to pressure		N/A
19.3.1	A part of the power pack that is subject to pressure during normal or anticipated abnormal operation shall withstand, without rupture, a pressure corresponding to five times the maximum pressure that can be developed by the system.		N/A

TEST REPORT

Appendix A:			
HOUSEHOLD AND COMMERCIAL BATTERIES - UL 2743			
Clause	Requirement - Test	Result - Remark	Verdict
19.3.2	In the event that a test is required to determine whether a part complies with the requirement in 19.3.1, two samples of the power pack are to be subjected to the Hydrostatic Strength Test, Section 59. Prior to the test, parts molded of polymeric material are to be conditioned in an air circulating oven for 7 hours at a temperature of 70°C (158°F) or 10°C (18°F) higher than the maximum temperature measured on the part under normal load, whichever is greater. The samples are to be removed from the oven and allowed to cool to room temperature prior to the test.		N/A
20	Capacitors and Electrochemical Capacitor Modules		N/A
20.1	Capacitors		N/A
20.2	Electrochemical capacitor modules		N/A
21	Resistors		P
22	Lampholders		N/A
23	Transformers		P
24	Switches and Controls		N/A
24.1	A switch or other control device shall be suitable for the application and shall have current and voltage ratings not less than those of the circuit that it controls when the power pack is operated as intended.		N/A
24.2	A primary circuit switch that controls an inductive load having a power factor less than 75 percent, such as a transformer, and that does not have an inductive rating, shall be rated not less than twice the full load current rating of the load, or the switch shall be investigated for this application.		N/A
24.3	A switch or other control device not having an inductive rating that is connected in a transformer secondary circuit shall comply with the Normal Temperature Test, Section 47, and with the Overload of switches and controls test, Section 53.2.		N/A
24.4	Unless rated for the application, a switch or other device that controls a motor and is not interlocked so that it will not break the locked rotor motor current shall be subjected to the Overload of switches and controls test, Section 53.2, based on the locked rotor current of the motor.		N/A
24.5	A switch that controls a tungsten-filament lamp shall have a tungsten-filament lamp current rating not less than the maximum current it will control.		N/A
24.6	A switch shall not disconnect the grounded conductor of a circuit.		N/A

TEST REPORT

Appendix A:			
HOUSEHOLD AND COMMERCIAL BATTERIES - UL 2743			
Clause	Requirement - Test	Result - Remark	Verdict
24.7	If unintentional operation of a switch results in a risk of injury to persons, the actuator of the switch shall be located or guarded so that such operation is unlikely. The actuator of a switch may be guarded by recessing, ribs, barriers, or the like.		N/A
25	Printed Wiring Boards	V-0	P
26	Interlocks		N/A
27	Overload Protection Devices		P
27.1	An overcurrent or thermal protective device shall be suitable for the application.		N/A
27.2	An automatic reset device used to comply with 27.1 shall be cycled through 200 operations. At the end of the 200 operations, the device shall be able to perform its intended function with no additional risk of fire, electric shock, or injury to persons. See Overload of protection devices, Section 53.3.		N/A
27.3	A fuse involving a risk of electric shock shall be inaccessible: a) To the user from outside the enclosure, and b) To the user during any user servicing.		N/A
27.4	A fuse that can be serviced by the user shall be secured in a fuseholder that is constructed and installed such that no uninsulated live parts will be accessible to contact by persons removing or replacing the fuse. The power pack shall be marked in accordance with 70.10. This marking shall be adjacent to the fuse.		N/A
27.5	The screw shell of a plug fuseholder and the accessible contact of an extractor type fuseholder shall be connected to the load.		N/A
28	Internal Battery	Li-ion Cells comply with UL 1642	P
28.1	General		P
28.2	Lead acid batteries		N/A
28.2.1	A lead acid battery shall comply with the requirements in the Standard for Standby Batteries, UL 1989.		N/A
28.2.2	The power pack shall provide a means of reverse polarity protection or the test of 50.3 shall be performed.		N/A
28.2.3	The power pack shall provide short circuit protection for the battery or the test of 50.2 shall be performed.		N/A
28.2.4	The power pack shall provide a means to prevent overcharge of the battery or the test of 50.9 shall be performed.		N/A
28.2.5	The battery shall be subjected to the Normal Operation Charging Test, Section 43.		N/A

TEST REPORT

Appendix A:			
HOUSEHOLD AND COMMERCIAL BATTERIES - UL 2743			
Clause	Requirement - Test	Result - Remark	Verdict
28.3	Lithium-ion batteries		P
28.3.1	A lithium-ion battery cell shall comply with the requirements in the Standard for Lithium Batteries, UL 1642, or in the Standard for Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes – Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made From Them, for Use in Portable Applications, UL 62133.	Complied with UL 1642	P
28.3.2	The power pack shall provide a means of reverse polarity protection or the test of 50.3 shall be performed.		P
28.3.3	The power pack shall provide short circuit protection for the battery or the test of 50.2 shall be performed		P
28.3.4	The power pack shall provide a means to prevent overcharge of the battery or the test of 50.9 shall be performed.		P
28.3.5	The battery shall be subjected to the Normal Operation Charging Test, Section 43.		P
28.3.6	The power pack shall be subjected to the Lithium-Ion Charging System Test, Section 44.		P
29	Spacings		P
30	Inverters		P
30.1	Inverters provided as part of the power pack shall be shown to comply with the applicable requirements in this outline. See 30.2. Exception: Inverters that comply with the Standard for Power Units Other Than Class 2, UL 1012, comply without further evaluation.		N/A
30.2	With reference to 30.1, specific attention should be given to: a) Printed Wiring Boards, Section 25; b) Spacings, Section 29; c) Normal Temperature Test, Section 47; d) Dielectric Voltage Withstand Test, Section 48; and e) Abnormal Operation Tests, Section 50.		N/A
31	Charging Functions		N/A
31.1	Specialized packs that provide a charging function while connected to the source of supply that is intended to charge the external battery through the pack's booster cable assembly, or other output connection, shall have the charging circuits evaluated in accordance with the applicable requirements in the Standard for Battery Chargers for Charging Engine-Starter Batteries, UL 1236.		N/A
Protection Against Injury To Persons			P
32	General		P
33	Back Feed Protection		P
34	Sharp Edges		P

TEST REPORT

Appendix A:			
HOUSEHOLD AND COMMERCIAL BATTERIES - UL 2743			
Clause	Requirement - Test	Result - Remark	Verdict
35	Strength of Enclosure		P
36	Attachments		P
37	Stability		P
38	Strength of Handles		P
39	Surface Temperatures		P
40	Safety Circuits and Control Circuits		P
PERFORMANCE			
41	General		P
42	Power Input Test		P
43	Normal Charging Operation Test		P
44	Lithium Charging System Test		P
45	Capacitor Discharge Test		N/A
46	Leakage Current Test		P
47	Normal Temperature Test		P
47.1	General		P
47.2	Maximum normal load		P
47.3	Power pack ampacity temperature test		P
48	Dielectric Voltage Withstand Test		P
49	Leakage Current Following Humidity Conditioning		P
50	Abnormal Operation Tests		P
50.1	General		P
50.2	Output short test		P
50.3	Reverse polarity of booster cables		N/A
50.4	Component faults		P
50.5	Relay and solenoid burnout		N/A
50.6	Printed wiring board abnormal test		N/A
50.7	Disconnected fan test		P
50.8	Blocked ventilation test		P
50.9	Overcharging test		P
50.10	Internal battery reverse polarity test	Without removable internal batteries	N/A
51	Vibration test		P
52	Ground Continuity		N/A
53	Overload Tests		P
53.1	General		N/A
53.2	Overload of switches and controls test	No such component	N/A
53.3	Overload of protection devices	No such component	N/A
53.4	Overload of interlocks	detachable flexible cord	N/A
54	Strain Relief Test		N/A
54.1	General		N/A
54.2	Push-back strain relief test		N/A
55	Strength of Enclosure Tests		P
55.1	General		P
55.2	Impact test		P
55.3	Drop test		P

TEST REPORT

Appendix A:			
HOUSEHOLD AND COMMERCIAL BATTERIES - UL 2743			
Clause	Requirement - Test	Result - Remark	Verdict
56	Mold Stress Test	The oven temperature 70°C, 7 hours.	P
57	Strength of Handles Test	The weight of the product__3.50__kg The force on the handle__140__N The count of the handle__1__	P
58	Stability Test		P
59	Hydrostatic Strength Test		N/A
60	Rain Test	Indoor use only	N/A
61	Tests on Insulating Materials		N/A
62	Accelerated Aging of Gaskets, Sealing Compounds, and Adhesives Test		N/A
63	Metallic Coating Thickness Test	Plastic enclosure	N/A
64	Permanency of Wrapped Hang Tag Marking		N/A
65	Power Pack Ampacity Test		N/A
66	Back Feed Test		P
67	Cold Bend Test		N/A
68	Clamp Tests		N/A
68.1	General		N/A
68.2	Cold drop test		N/A
68.3	Dielectric voltage-withstand test		N/A
68.4	Secureness test		N/A
Marking (69-70)		The marking provided by applicant, but the marking complied the UL 2743.	P
Instructions (71-76)		The instructions provided by applicant, but the marking complied the UL 2743.	P

TEST REPORT

Appendix: List of critical components (Partial)

Object/part No.	Manufacturer/ trademark	Type/model	Technical data	standard	Mark(s) of conformity ¹⁾
Plastic enclosure	CHI MEI CORPORATION	PA-765A(+)	ABS, V-0, minimum RTI:80°C, min. thickness 1.5mm	UL 94, UL 746C	UL E56070
AC output receptacle	ZHEJIANG LECI ELECTRONICS CO LTD	DB-F-M	125Vac, 15A, 1-15R, Two blade	UL 60320-1	UL E309671
USB output port	AMPHENOL TECHNOLOGY (ZHUHAI) CO LTD	C10-670932-B2P	5Vdc	UL1977	UL E335170
All Round Output controller	KINGFA SCI & TECH CO LTD	FW-620T	ABS, minimum RTI: 80°C , minimum thickness 1.5mm, V-0	UL 746	UL E171666
DC fan	SHENZHEN YCCFAN TECHNOLOGY CO LTD	YDH6015C12F	12Vdc, 0.18A	UL 507	UL E465296
Internal lead wire	DONGGUAN CHENG XING ELECTRONIC CO LTD	2468	VW-1, 26AWG, 300V, 80°C	UL 758	UL E249743
Internal lead wire Alternative	Various	2468	VW-1min. 26AWG, 300V, 80°C	UL 758	UL
Heat shrinkable tube	SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD	RSFR	600V, 125°C, VW-1, min. thickness 0.25mm	UL 224	UL E203950
Heat shrinkable tube Alternative	Various	Various	600V, 125°C, VW-1, min. thickness 0.25mm	UL 224	UL
L1	Shenzhen Hongtuhaoran Electronics Co., Ltd.	TM140905-502-01A	2.6mH min., 130°C	UL 2743	Tested with appliance
Magnet Wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEW-B	130°C	UL 1446	UL E201757
LF1	Shenzhen Hongtuhaoran Electronics Co., Ltd.	TM140905-502-01A	10uH min., 130°C	UL 2743	Tested with appliance
Magnet Wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEW-B	130°C	UL 1446	UL E201757

TEST REPORT

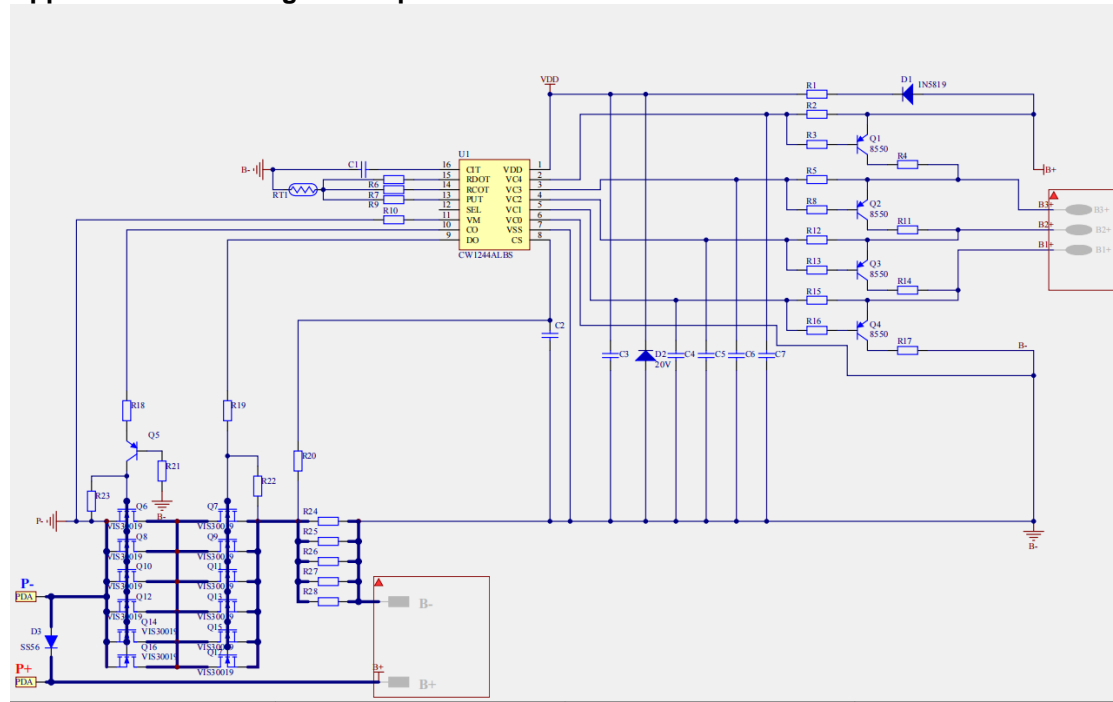
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	standard	Mark(s) of conformity ¹⁾
Heat shrinkable tube	SHENZHEN WOER HEAT- SHRINKABLE MATERIAL CO LTD	RSFR	600V, 125°C, VW-1, min. thickness 0.25mm	UL 224	UL E203950
Y Capacitor	SHENZHEN HAOTIAN ELECTRONIC CO LTD	HT	Y1, Max.2200pF, 400V, 125°C min	UL 60384-14	UL E326483
Optocoupler	EVERLIGHT ELECTRONICS CO LTD	EL817	Double protection optical isolators, providing 5000 Vac isolation	UL 1577	UL E214129
Transformer	Shenzhen KAM YEE PAK Technology Co. , Ltd.	4S300-110V- V01	Class B, 130°C	UL 2743	Tested with appliance
-bobbin	Chang Chun Plastics Co Ltd	T375J	Phenolic, V-0	UL 94	UL E59481
-Magnet wire	PACIFIC ELECTRIC WIRE & CABLE (SHENZHEN) CO LTD	UEW/U@	130°C	UL 1466	UL E201757
-Triple insulated wire	Totoku Electric Co Ltd	TIW-3	155°C	UL 2353	UL E166483
-Insulation tape	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	PF* (d)(g)	180°C	UL 510	UL E165111
-Tube	Great Holding Industrial Co Ltd	TFT	300V min., 200°C, VW-1	UL 224	UL E156256
--varnish	SUZHOU TAIHU ELECTRIC ADVANCED MATERIAL CO LTD	T-1168(a)	155°C	UL1446	UL E228349
Internal wire for battery	DONGGUAN CHENG XING ELECTRONIC CO LTD	1015	VW-1, 10AWG, 300V, 105°C	UL 758	UL E249743
Internal wire for battery Alternative	Various	1015	VW-1, 10AWG, 300V, 105°C	UL 758	UL
Internal wire for signal	DONGGUAN CHENG XING ELECTRONIC	2468	VW-1, 24AWG, 300V, 80°C	UL 758	UL E249743

TEST REPORT

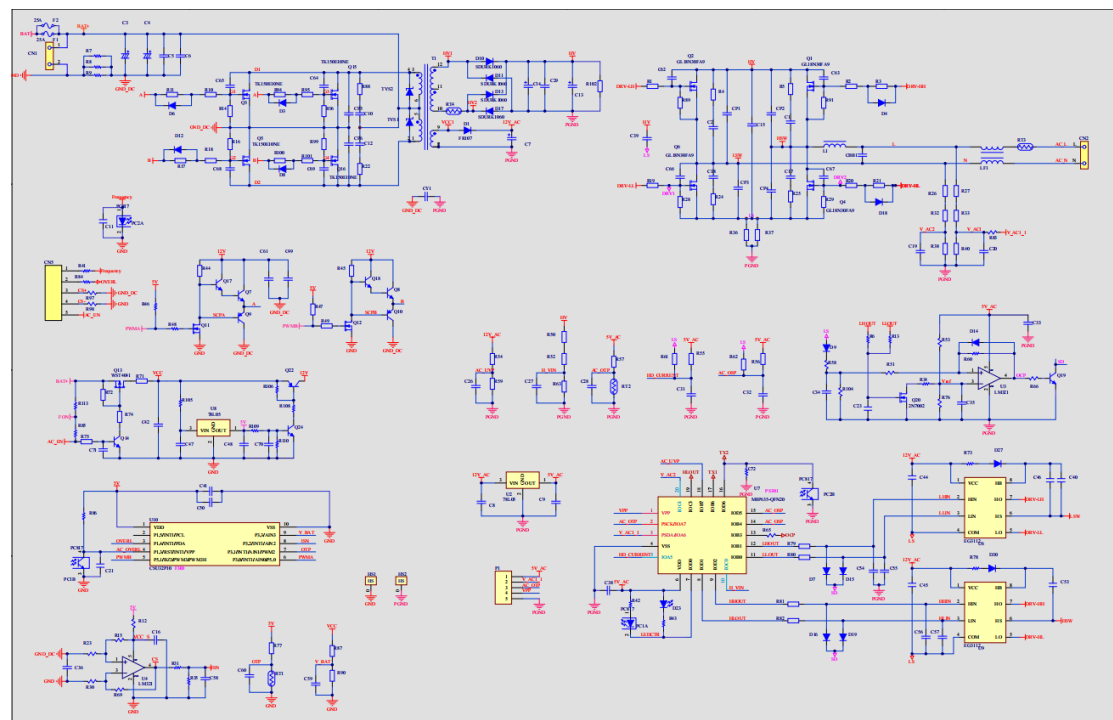
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	standard	Mark(s) of conformity ¹⁾
	CO LTD				
Internal wire for signal Alternative	Various	2468	VW-1, 24AWG, 300V, 80°C	UL 758	UL
DC Current Fuse	DONG GUAN ANDU ELECTRONICS CO LTD	MIN	25A, 48V	UL 248	UL E317400
PCB	MEIZHOU TONGZHENG ELECTRONIC CO LTD	EC-3	V-0, 130°C, minimum thickness 1.5mm	UL 94 UL 796	UL E477626
PCB Alternative	Interchangeable	Interchangeable	V-0, 130°C, minimum thickness 1.5mm	UL 94 UL 796	UL
Battery protective IC on battery protection	CELLWISE MICROELECTRO NICS CO LTD	CW1046	Over charge protection voltage:4.175-4.350V, Over discharge protection voltage:2.300-3.000V, Temperature rang:- 40~75°C	UL 2743	Tested with appliance
Battery cell	GUANGXI ZHUO NENG NEW ENERGY TECHNOLOGY CO LTD	INR18650S- 2500mAh	Max Charging Voltage:4.2V, 2500mAh	UL 1642	UL MH61981
AC ADAPTOR	Shenzhen yingyuan Electronics Co.,Ltd	YHY-19003150	Input: 100-240V~, 50/60Hz, 1.5A Output: 19V.dc, 3.15A	UL 62368-1	UL E480146
Label (not shown)	Various	Various	Min. 80°C, suitable for plastic enclosure	UL 969	UL

TEST REPORT

Appendix: Circuit Diagram for protection board

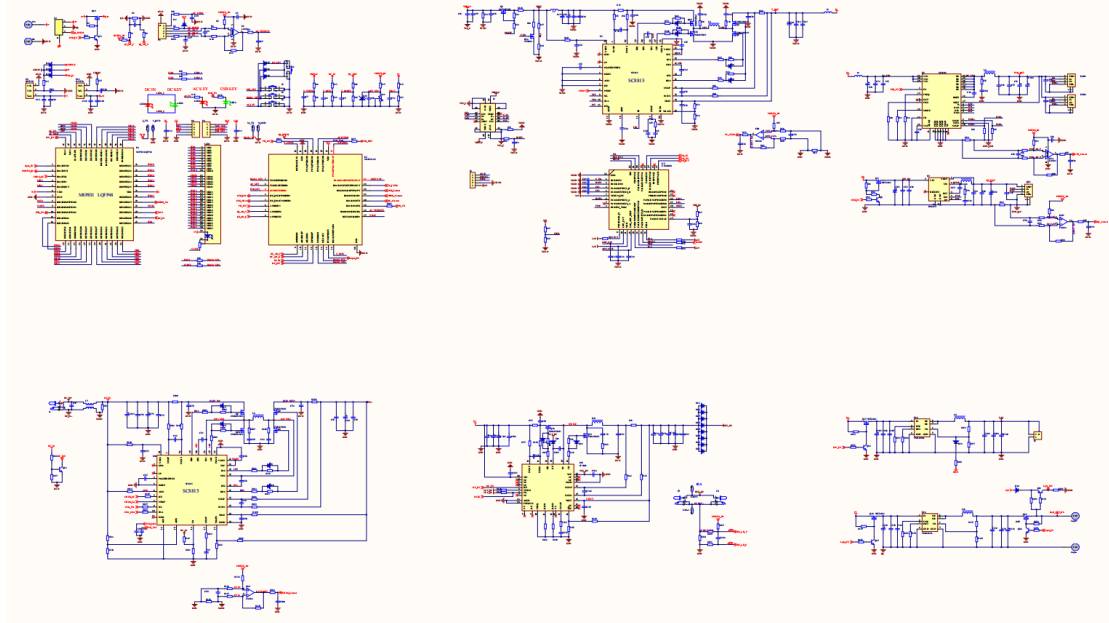


Appendix: Circuit Diagram for Inverter board

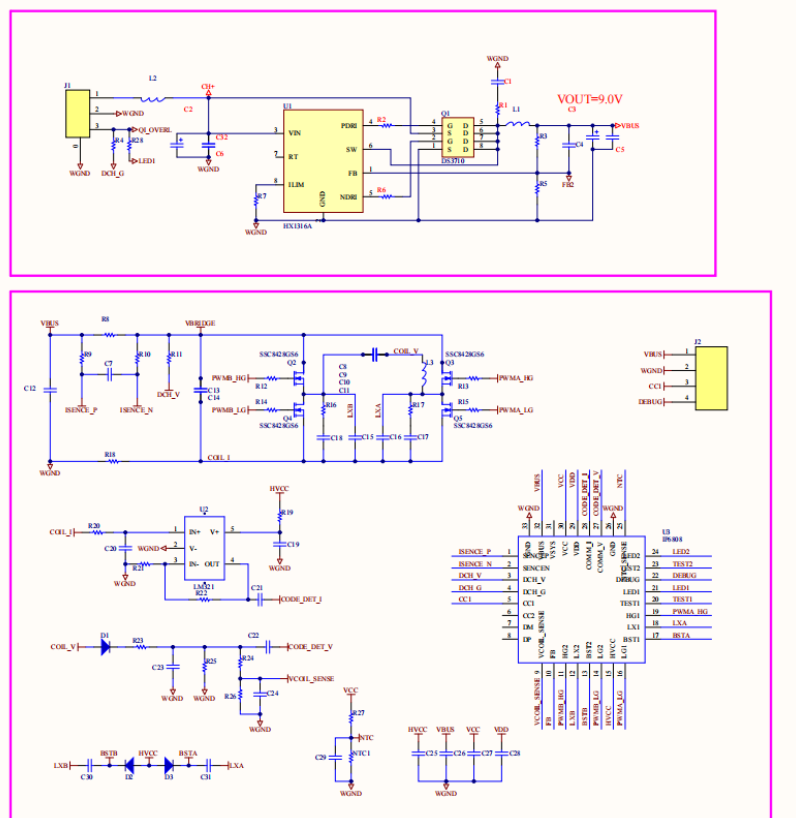


TEST REPORT

Appendix: Circuit Diagram for main board

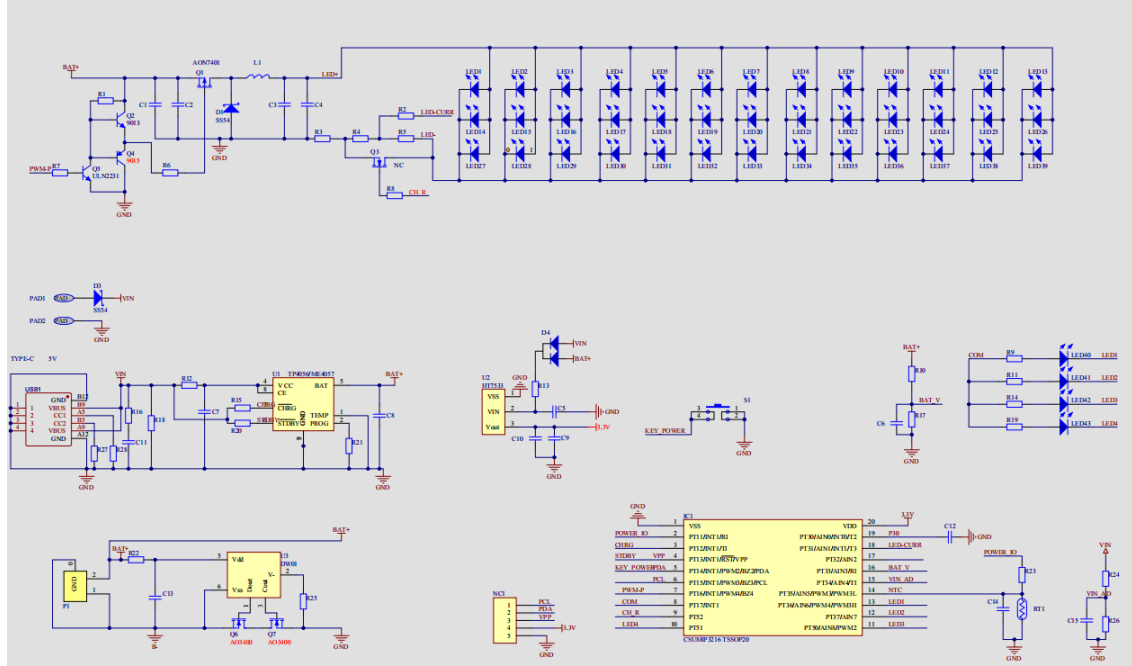


Appendix: Circuit Diagram for wireless board



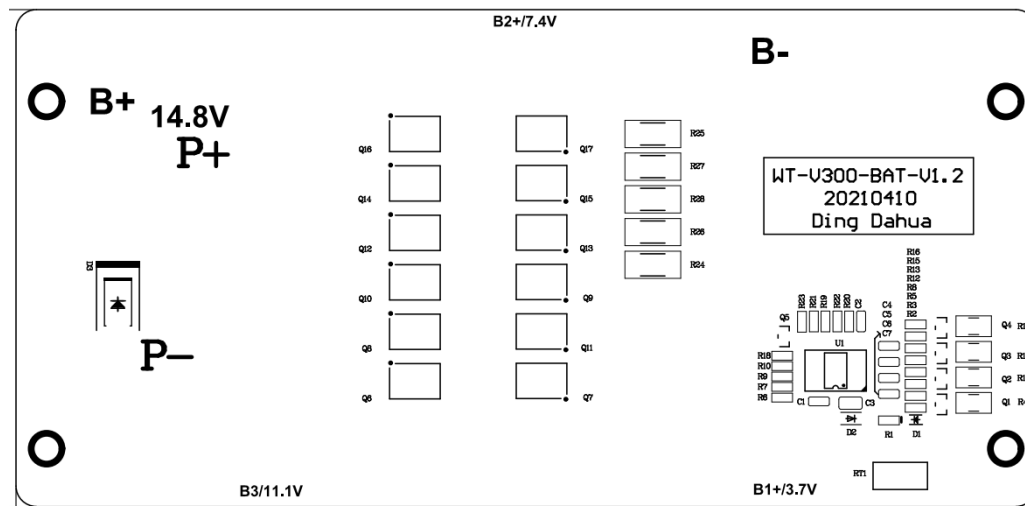
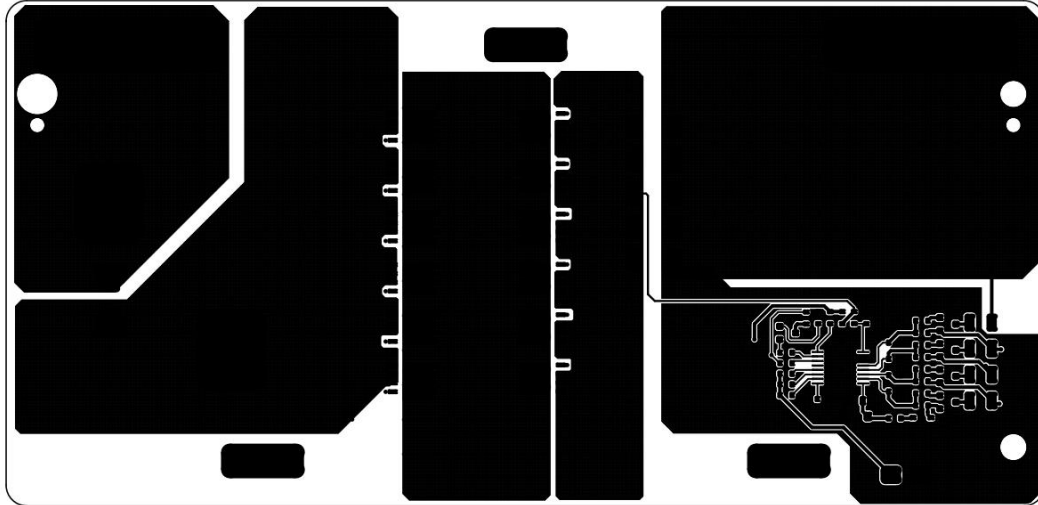
TEST REPORT

Appendix: Circuit Diagram for LED board



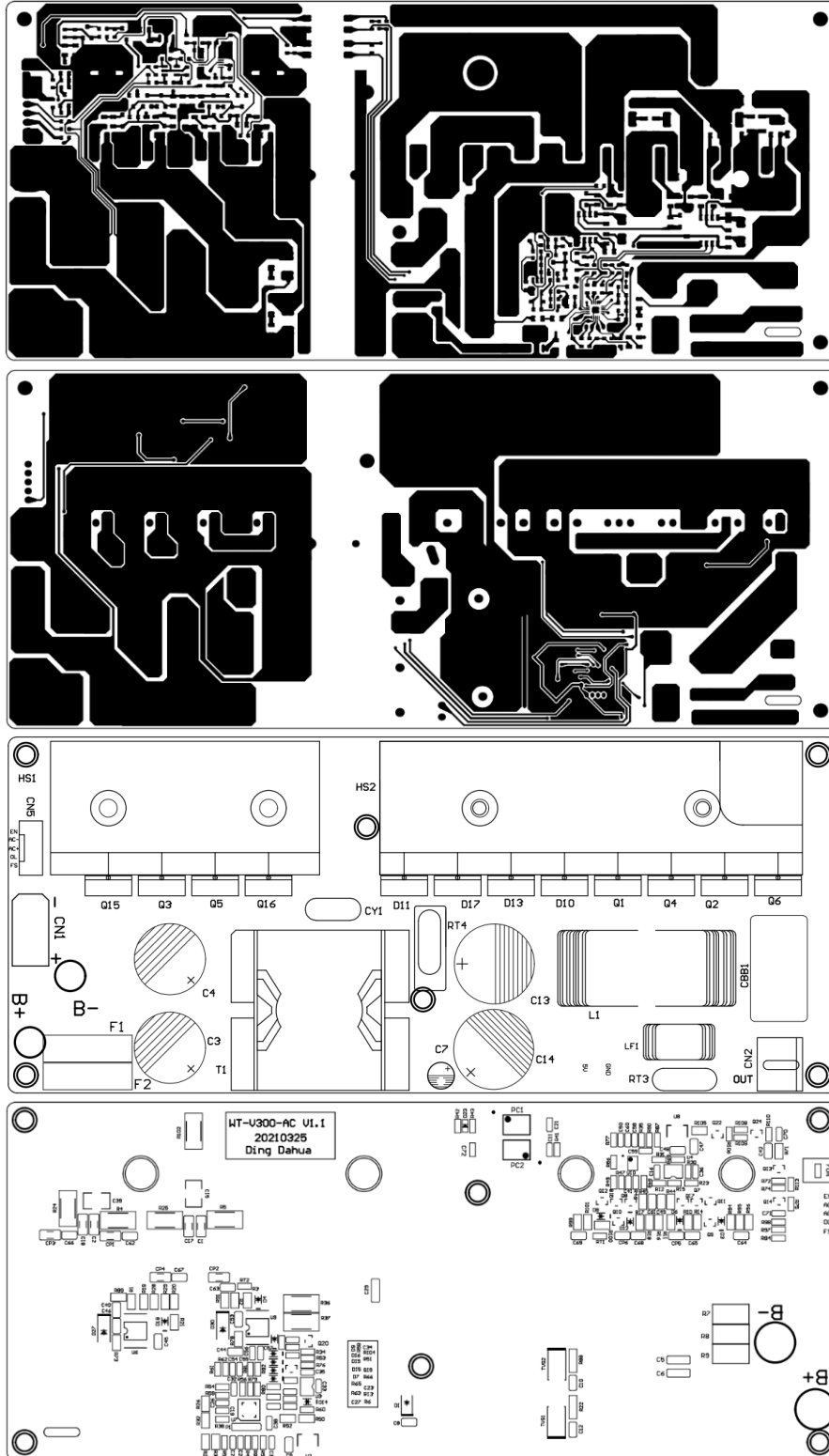
TEST REPORT

Appendix: PCB layout for protection board



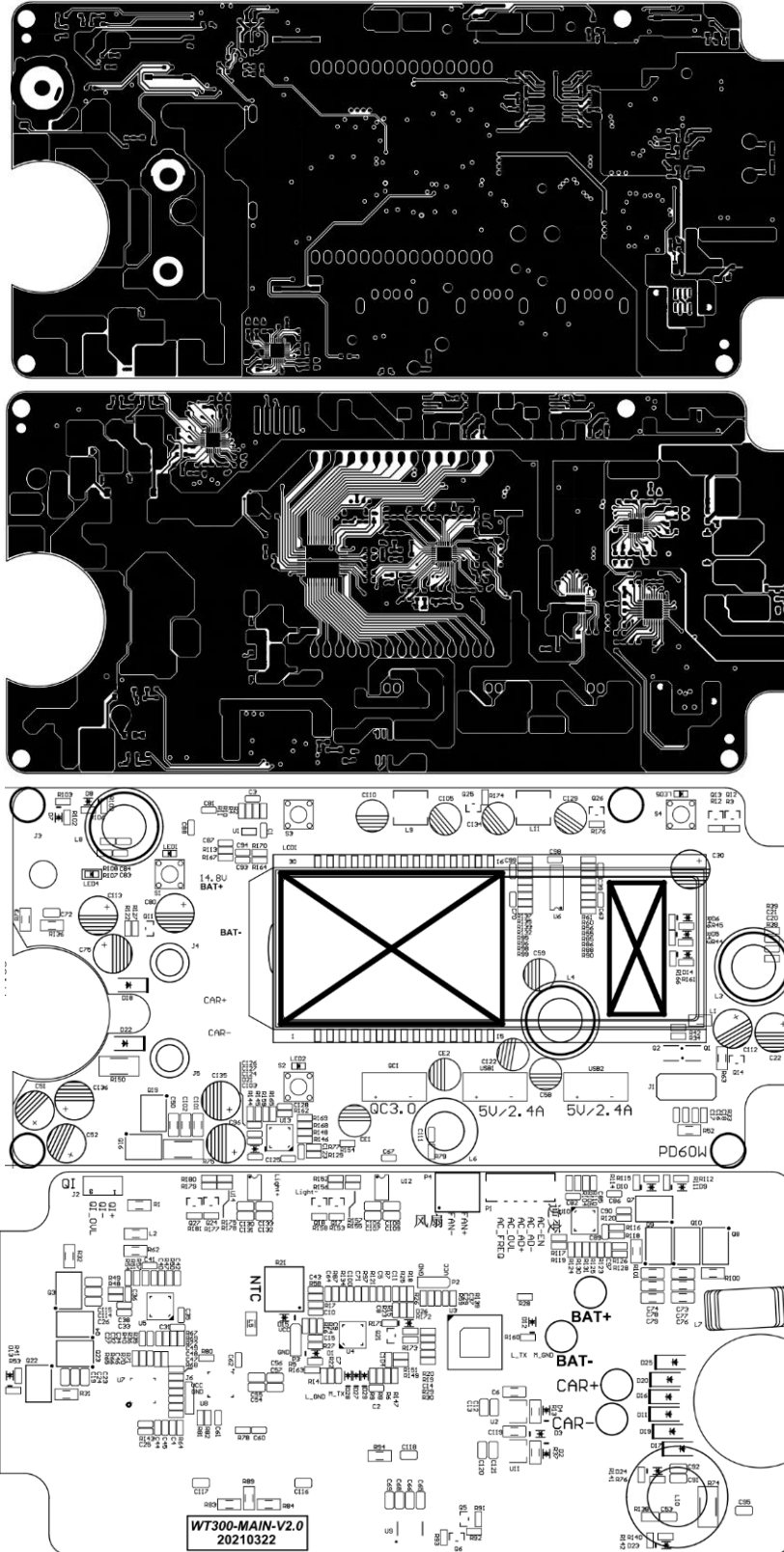
TEST REPORT

Appendix: PCB layout for Inverter board



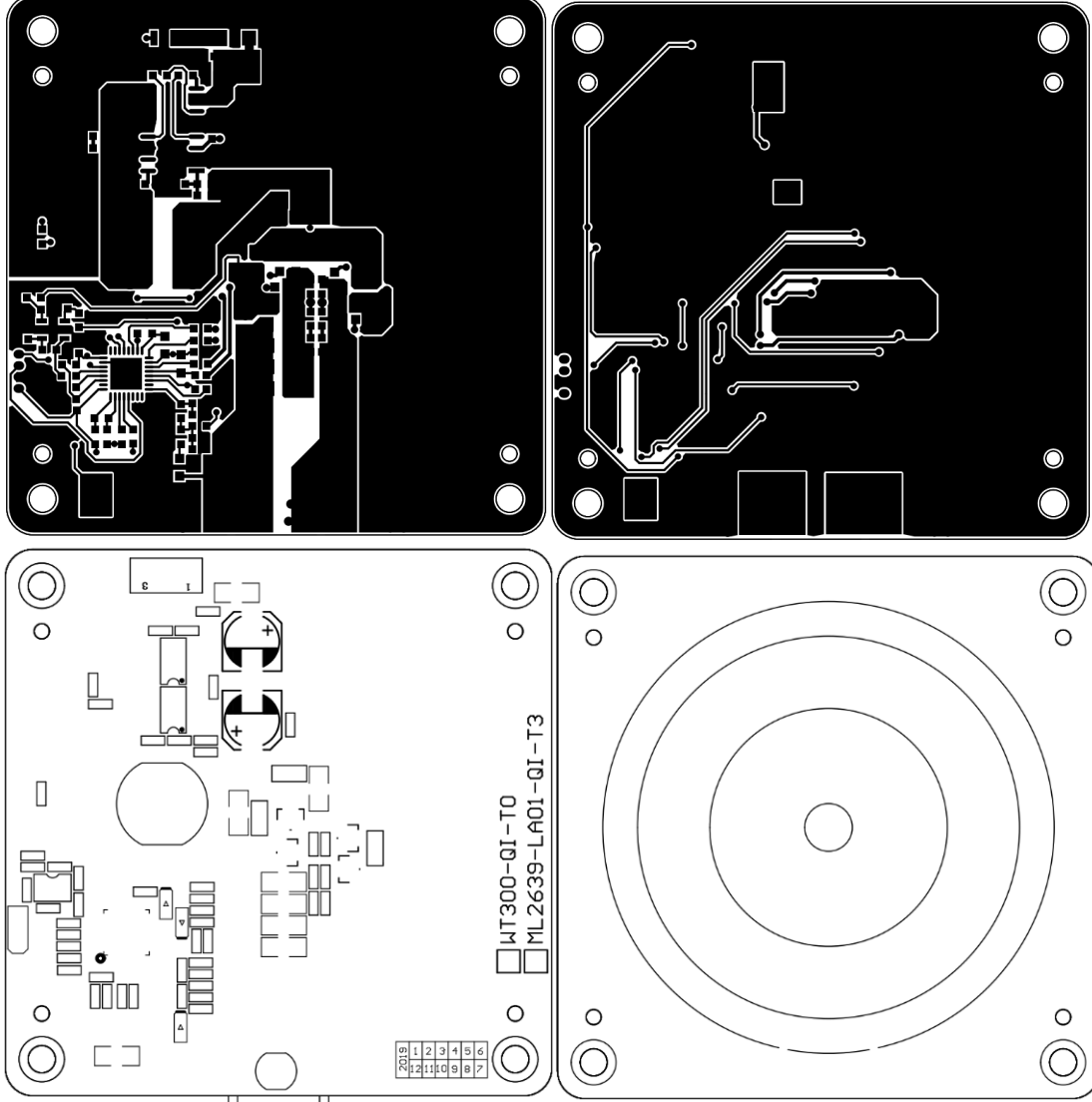
TEST REPORT

Appendix: PCB layout for main board



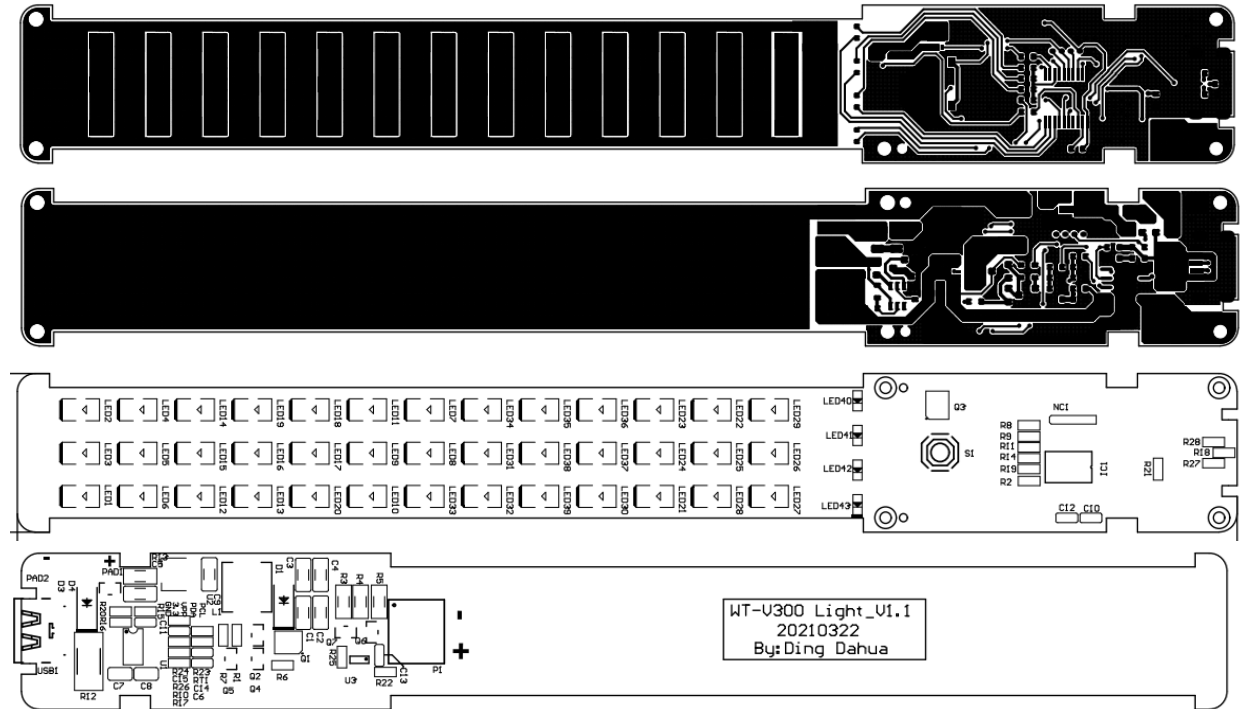
TEST REPORT

Appendix: PCB layout for wireless board



TEST REPORT

Appendix: PCB layout for LED board



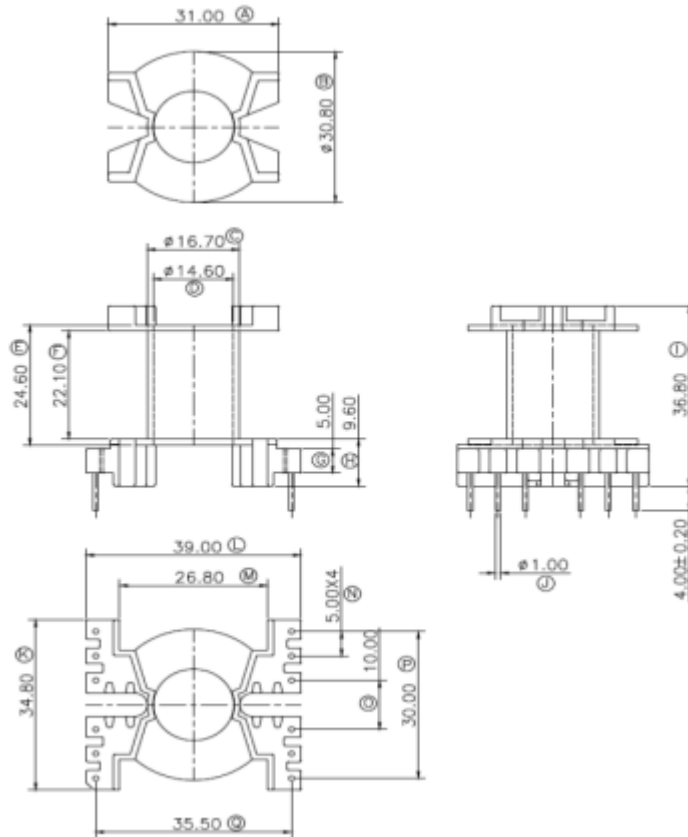
TEST REPORT

Appendix: Battery Packs specification

序号	项目	特征值	备注 Note
1	产品重量	约 1650g	
2	组合方式	4S8P	
3	出货电压	≥12V	
4	典型容量	20Ah	0.2 C ₅ A 充放电至截至电压
5	标称电压	14.8V	
6	充电截止电压	16.8V	
7	放电截止电压	11V	
8	标准充电电流	4A	0.2 C ₅ A
9	建议充电电流	4A	0.2 C ₅ A(T≥10°C)
10	标准放电电流	4A	0.2 C ₅ A
11	快速放电电流	20A	1C ₅ A
12	最大支持放电电流	60A	3 C ₅ A(T≥0°C) (正负级导线最大支持 25A 放电电流)
13	短路保护	有	
14	工作温度	0~+60°C	充电
15		-10~+60°C	放电

TEST REPORT

Appendix: Specification of Transformer (for Inverter)



层别	脚位(起~结)	线径与股数	圈数	胶带层数
N1	10头~11尾	φ0.7mm三层绝缘线, 1股	42圈	3L
N2	3,4头~5,6尾	0.20mm厚*18mm宽 铜箔	4圈	3L,连续绕线
N3	5,6头~1,2尾	0.20mm厚*18mm宽 铜箔	4圈	
N4	11头~12尾	φ0.7mm三层绝缘线, 1股	15圈	2L
N5	7头~9尾	φ0.35mm三层绝缘线, 1股	4圈	2L

TEST REPORT

Photo of the appliance:



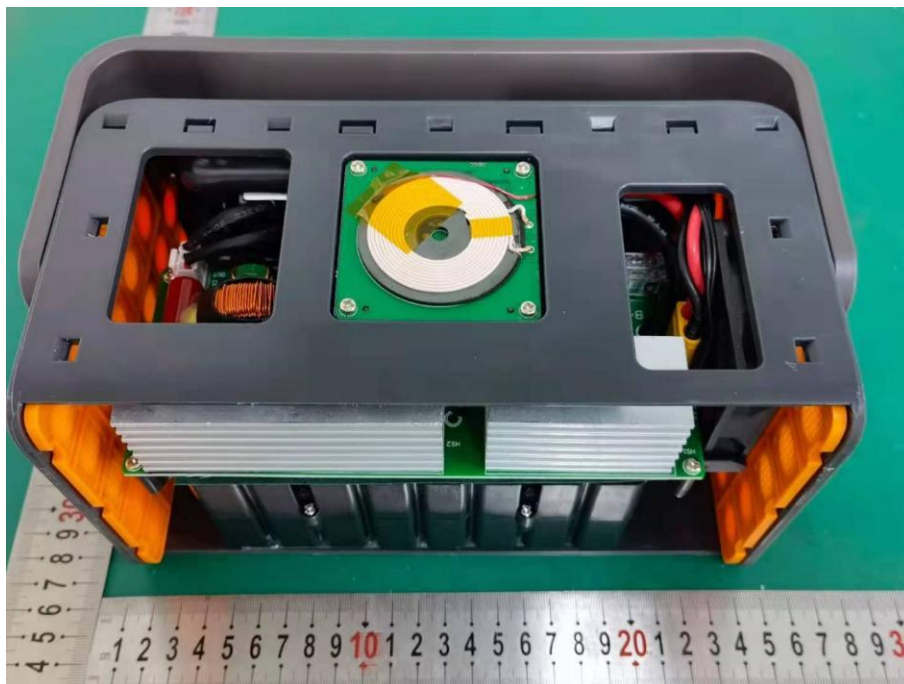
TEST REPORT

Photo of the appliance:



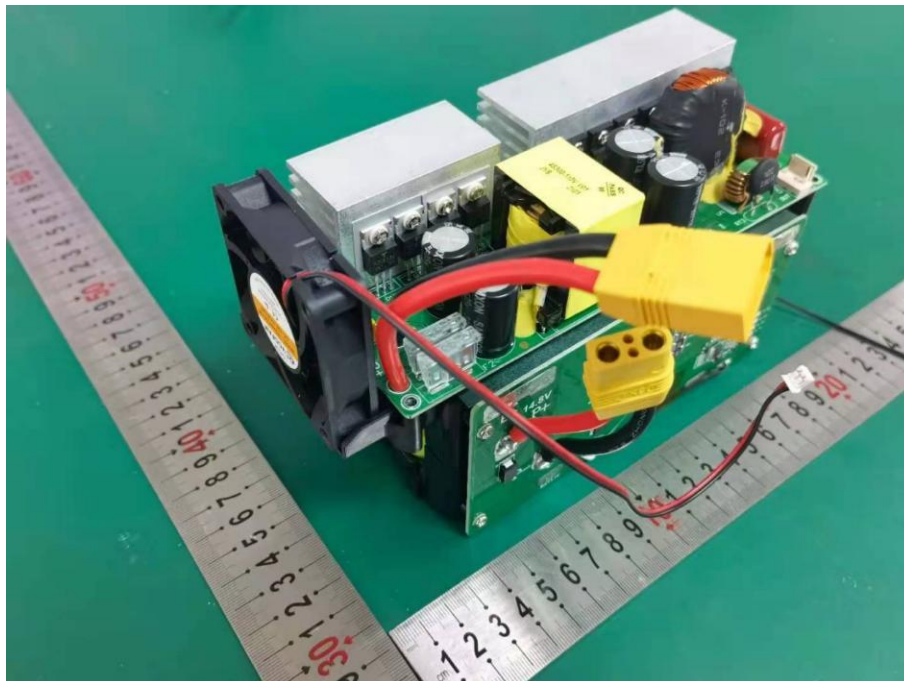
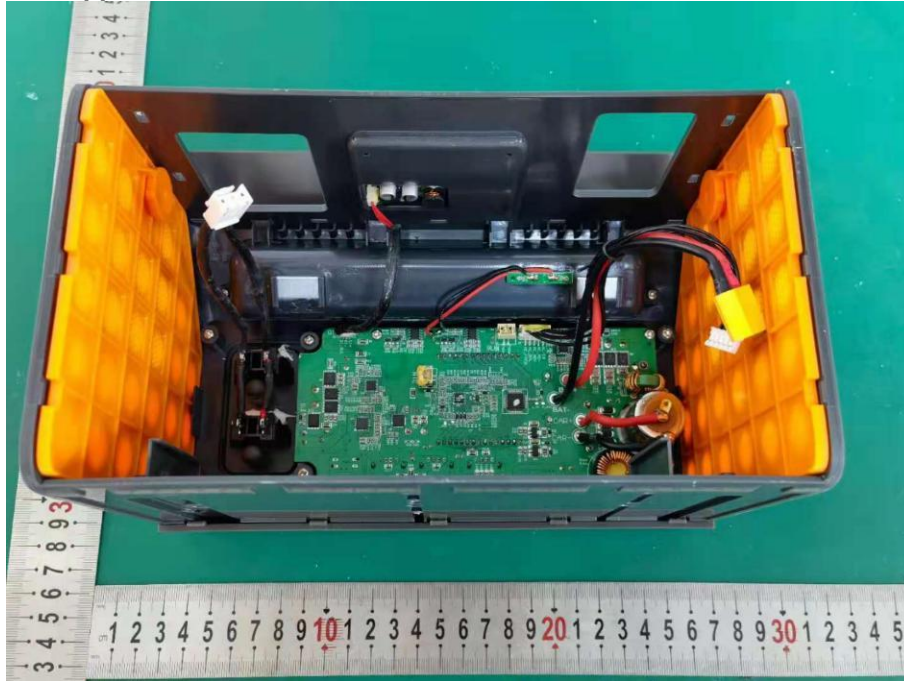
TEST REPORT

Photo of the appliance:



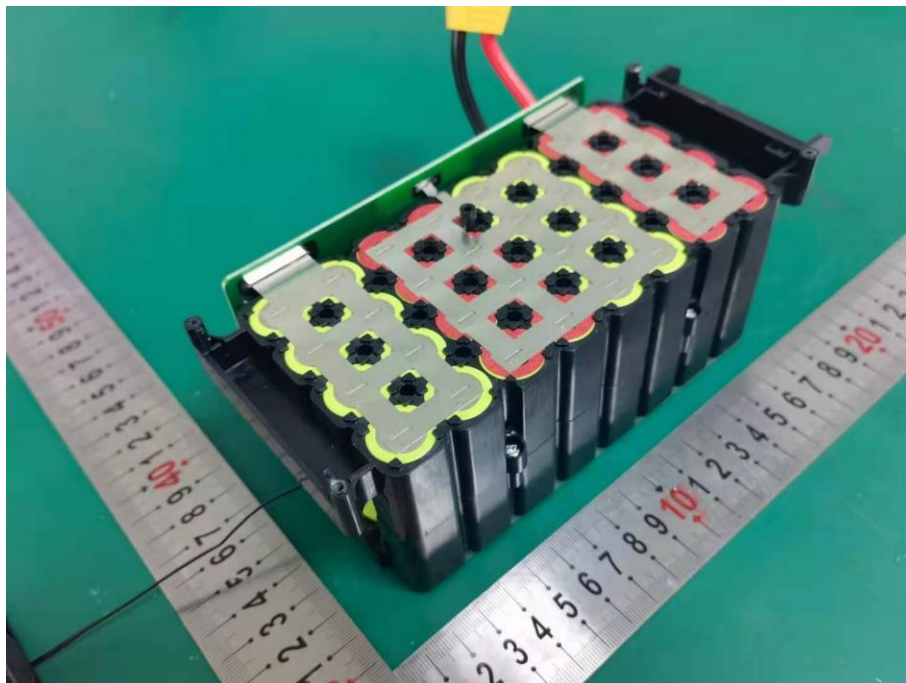
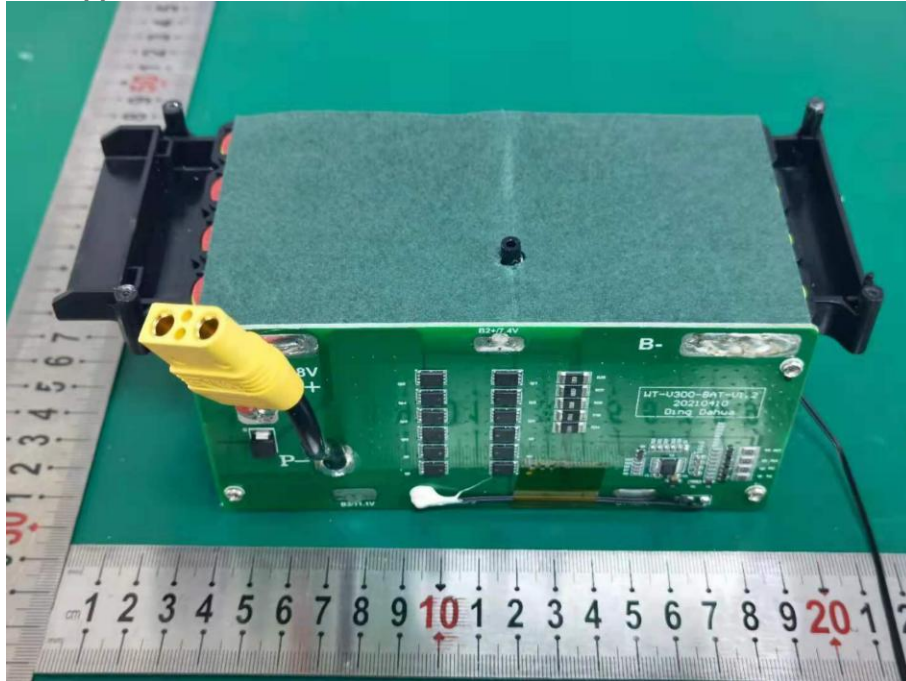
TEST REPORT

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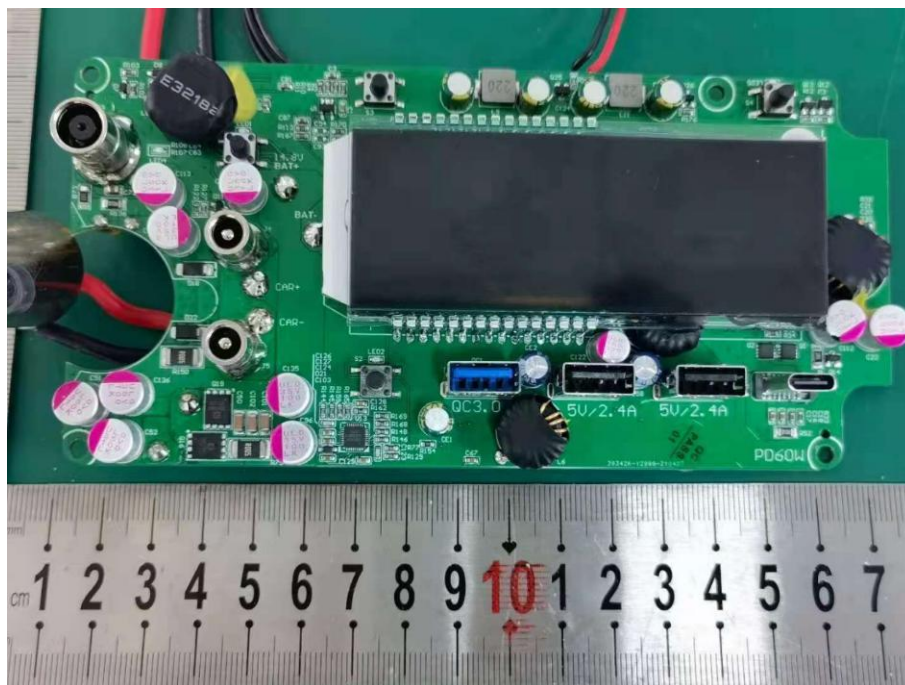
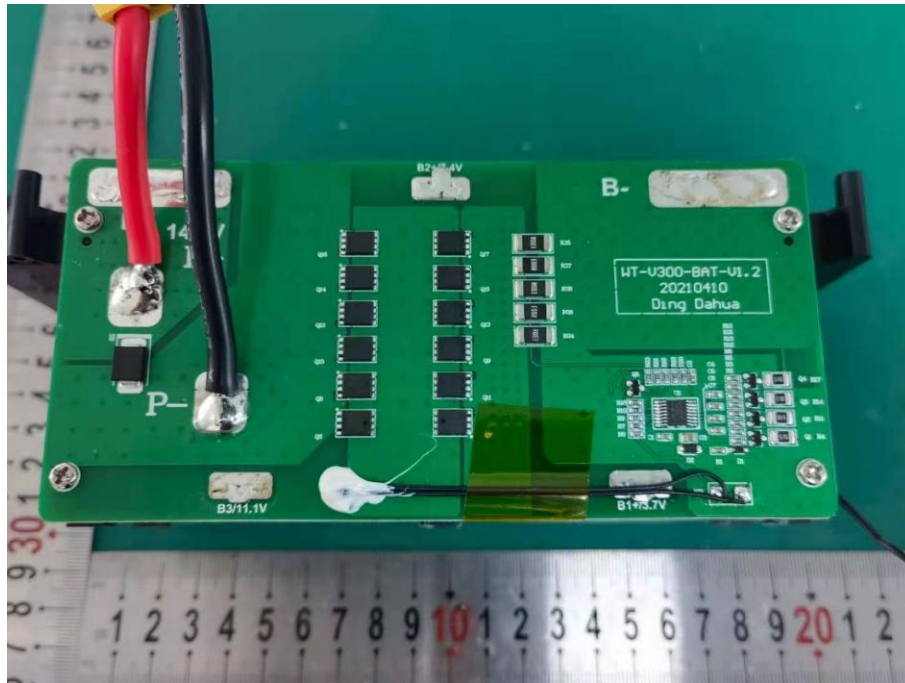
TEST REPORT

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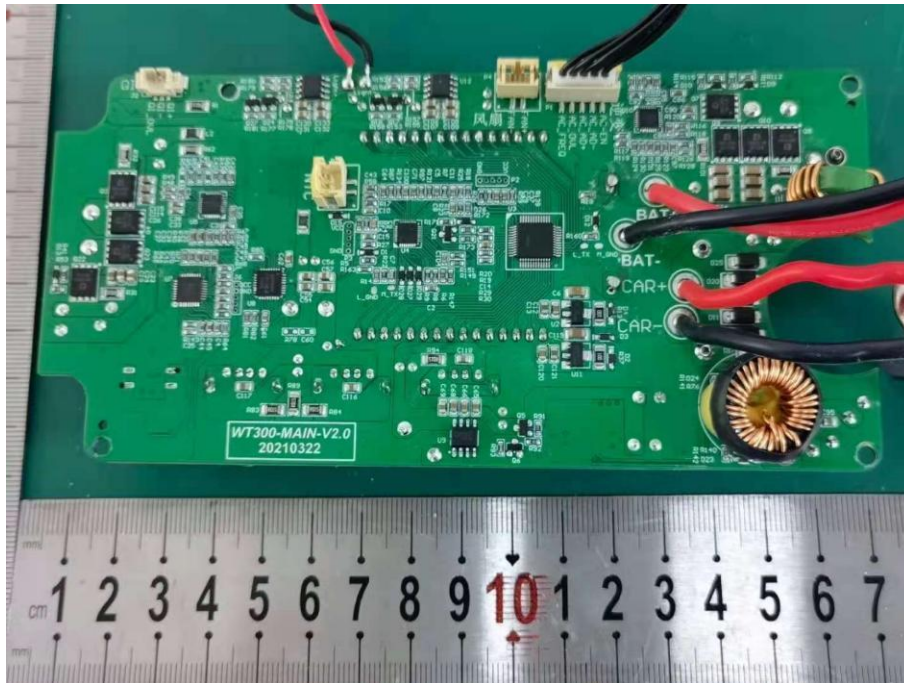
TEST REPORT

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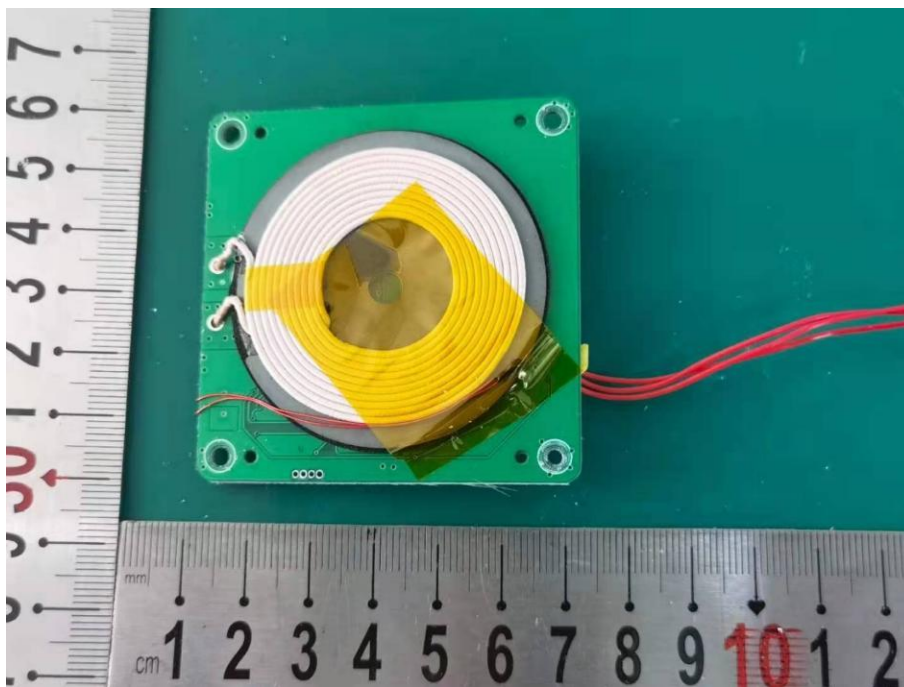
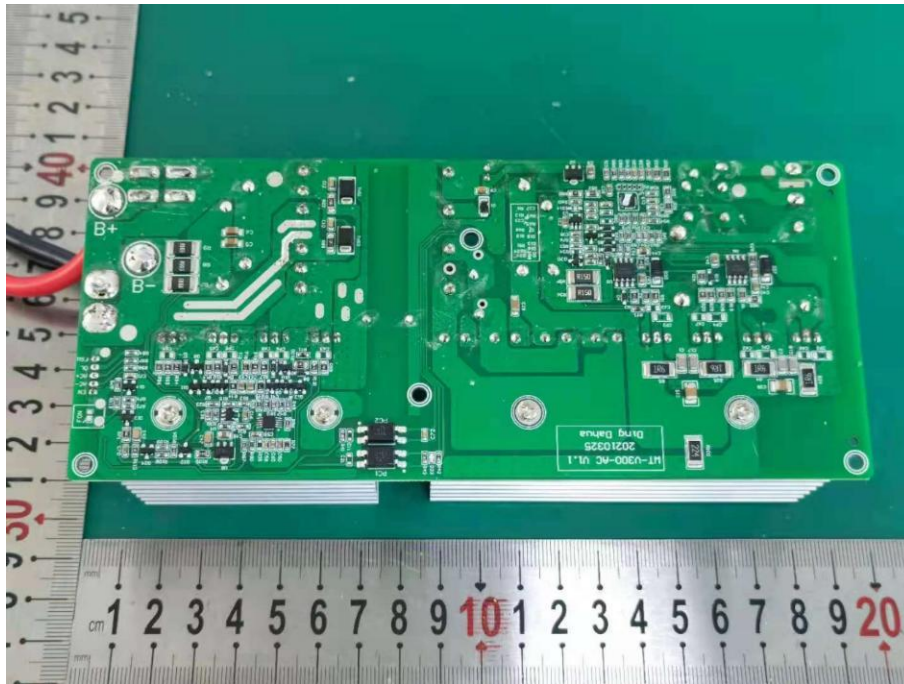
TEST REPORT

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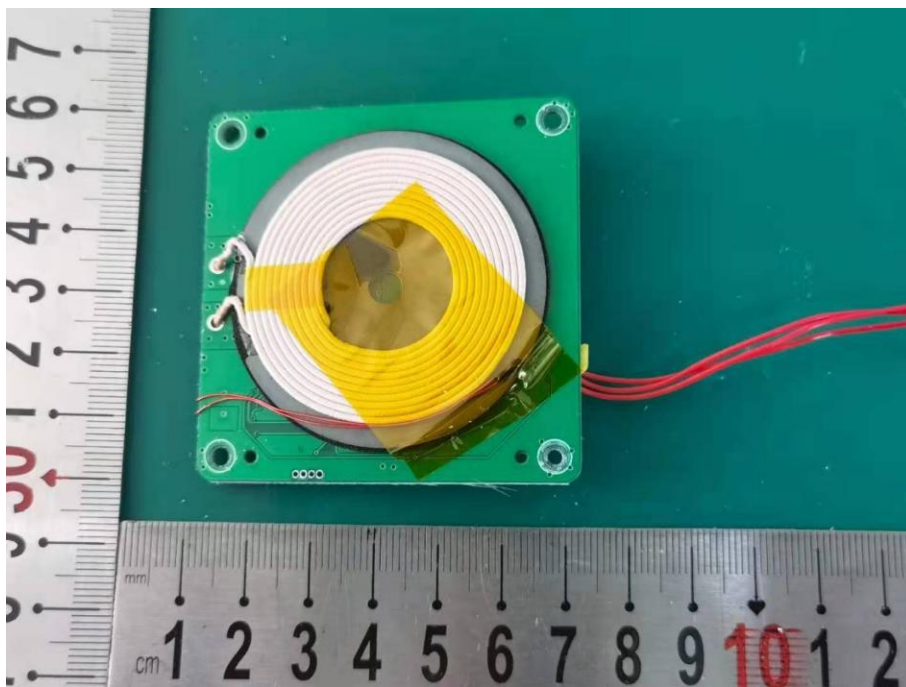
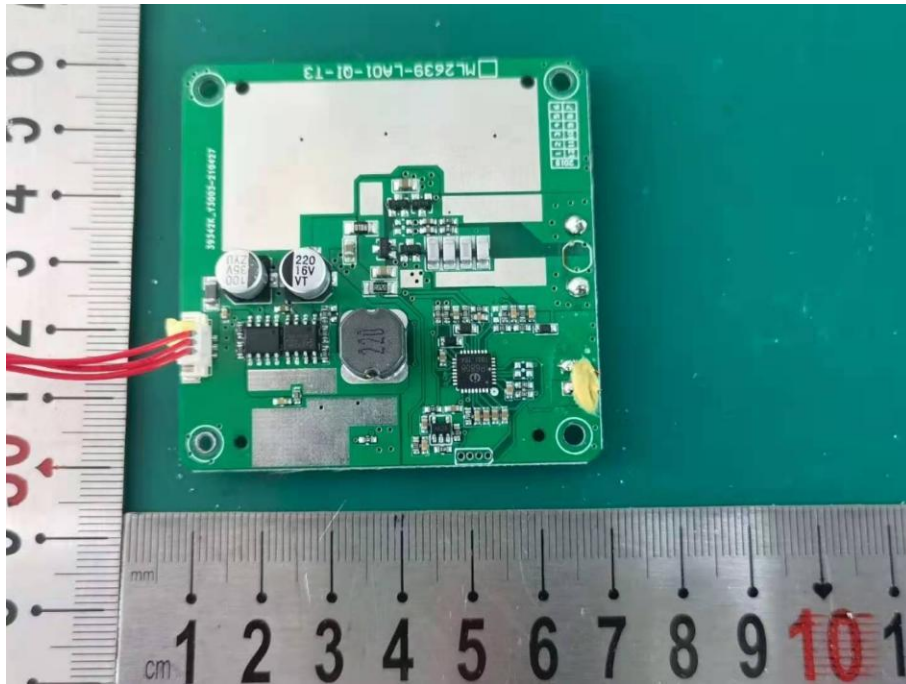
TEST REPORT

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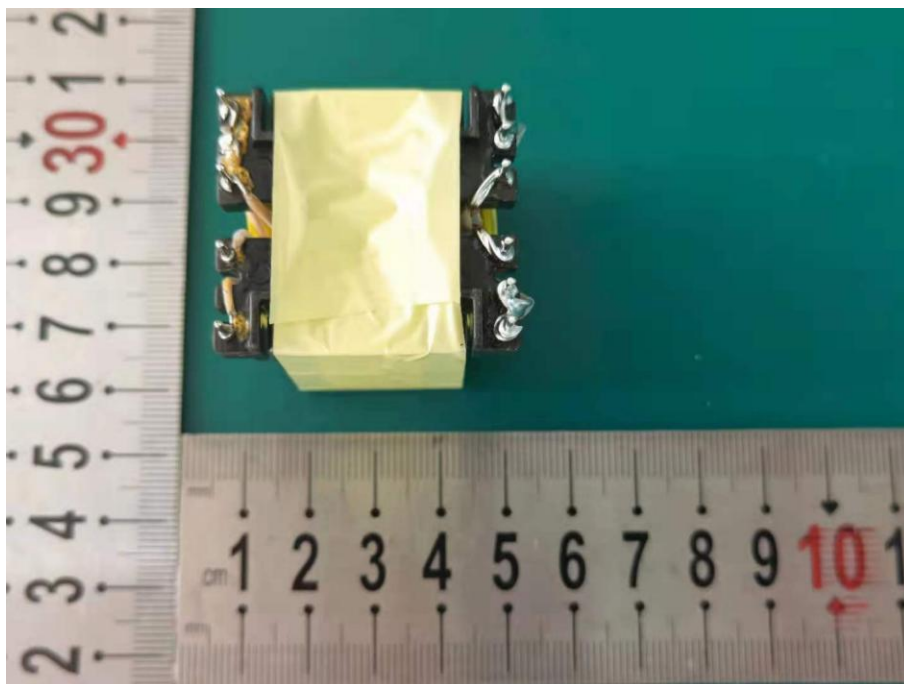
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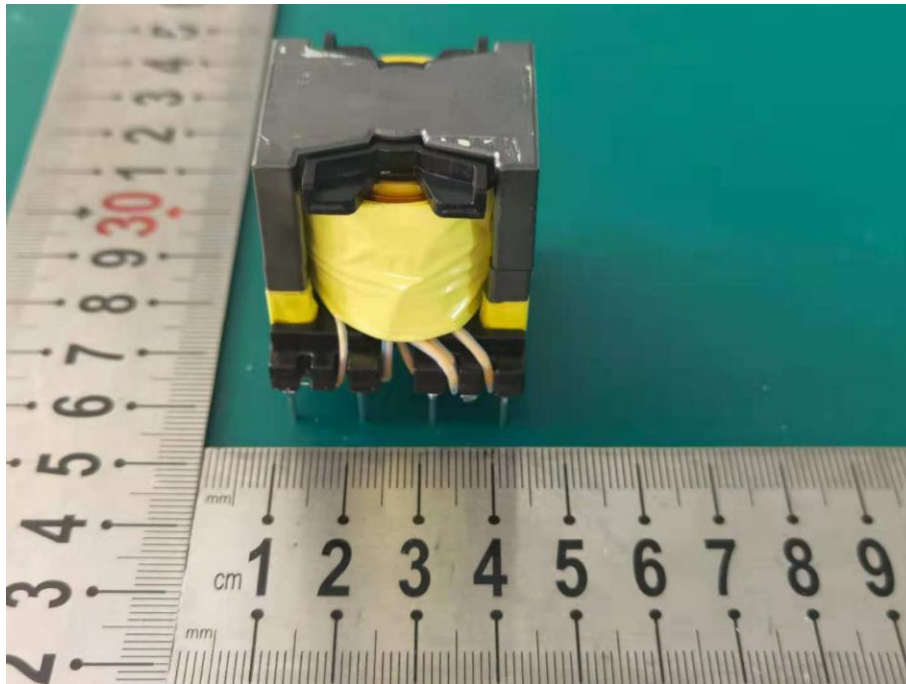
TEST REPORT

Photo of Transformer:



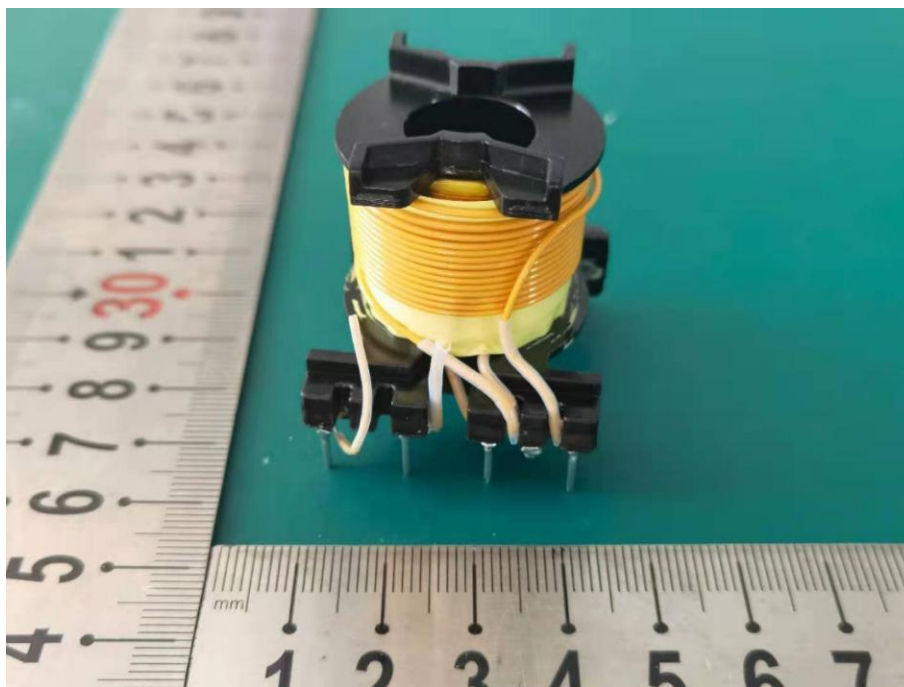
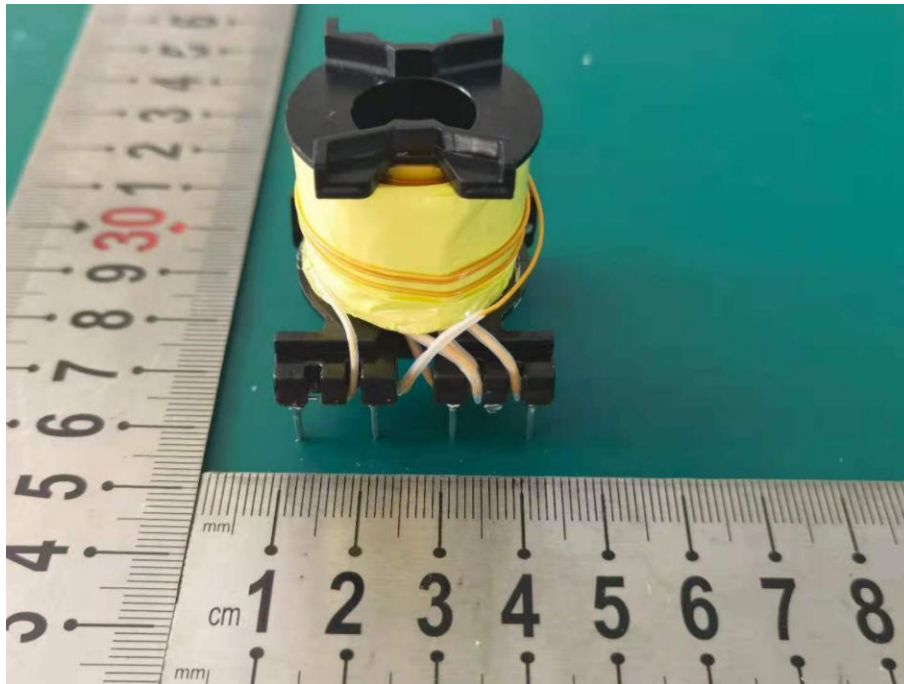
TEST REPORT

Photo of Transformer:



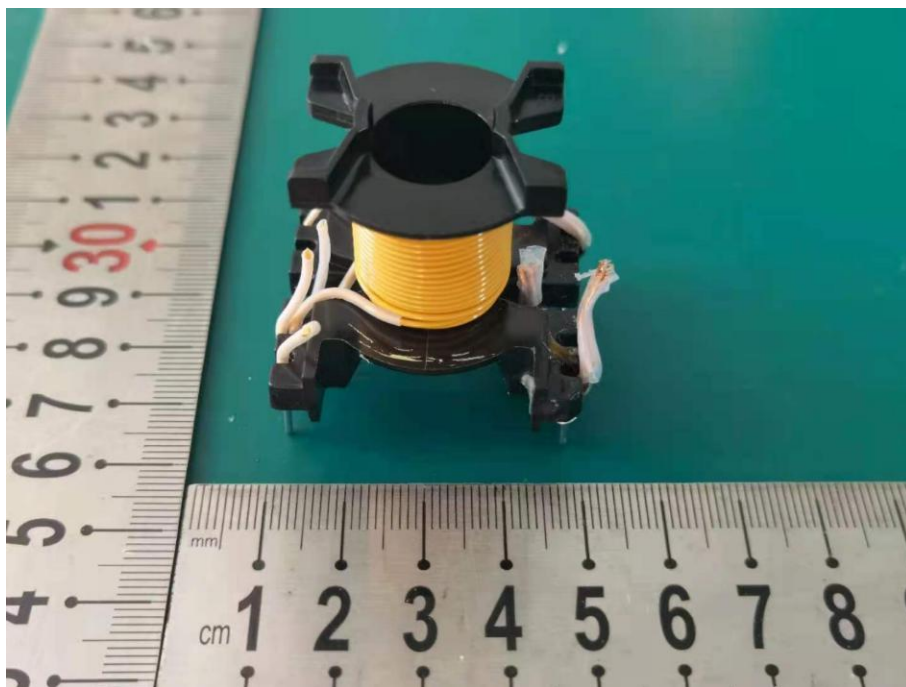
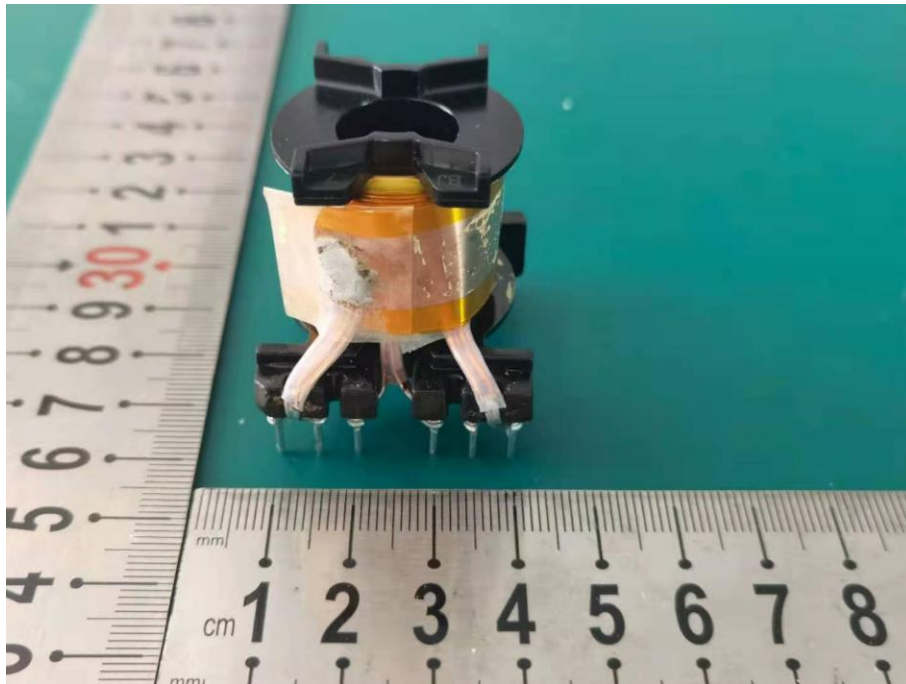
TEST REPORT

Photo of Transformer:



TEST REPORT

Photo of Transformer:



TEST REPORT

Marking:

<p>Gearfly</p> <p style="text-align: center;">Portable Power Station</p> <p>Model: Savior 300 Operation temperature: -10~40°C DC Input: 19VDC, 3.15A AC output: 110VAC, 60Hz, 300W Type-c output: 5VDC, 3A or 9VDC, 3A or 12VDC, 3A or 15VDC, 3A or 20VDC, 3A USB Output 1+USB Output 2: 5VDC, 2.4A USB Output 3: 5VDC, 2.4A or 9VDC, 2A or 12VDC, 1.5A DC Output 1+DC Output 2: 12DC, 10A Car charger output: 12DC, 10A Max. 400W total for all the outputs Internal Li-ion Battery Capacity: 14.8Vdc, 20AH</p> <p style="text-align: right;">WWYY</p>

CAUTION:

- a) Do not overcharge the internal battery. See Instruction Manual.
- b) Do not smoke, strike a match, or cause a spark in the vicinity of the power pack.
- c) Only charge the internal battery in a well ventilated area.
- d) Risk of Electric Shock. Connect only to properly grounded outlets.
- e) Risk of Injury To Persons. Do not use this product if the power cord or the battery cables are damaged in any way.
- f) This device is intended to be used indoors only. Do not use outdoors.

ATTENTION:

- a) Ne surchargez pas la batterie interne. Voir le manuel d'instructions.
- b) Ne fumez pas, ne frappez pas une allumette et ne provoquez pas d'étincelle à proximité du bloc d'alimentation.
- c) Ne chargez la batterie interne que dans un endroit bien ventilé.
- d) Risque de choc électrique. Ne branchez que sur des prises correctement mises à la terre.
- e) Risque de blessures aux personnes. N'utilisez pas ce produit si le cordon d'alimentation ou les câbles de la batterie sont endommagés.
- f) Cet appareil est conçu pour être utilisé à l'intérieur uniquement. Ne pas utiliser à l'extérieur.

TEST REPORT

Safety user manual:

IMPORTANT SAFETY INSTRUCTIONS

WARNING – When using this product, basic precautions should always be followed, including the following:

- a) Read all the instructions before using the product.
- b) To reduce the risk of injury, close supervision is necessary when the product is used near children.
- c) Do not put fingers or hands into the product.
- d) Use of an attachment not recommended or sold by power pack manufacturer may result in a risk of fire, electric shock, or injury to persons.
- e) To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.
- f) Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- g) Do not operate the power pack with a damaged cord or plug, or a damaged output cable.
- h) Do not disassemble the power pack, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
- i) To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.
- j) WARNING – RISK OF EXPLOSIVE GASES.
 - 1) WORKING IN VICINITY OF A LEAD ACID BATTERY IS DANGEROUS. BATTERIES GENERATE EXPLOSIVE GASES DURING NORMAL BATTERY OPERATION. FOR THIS REASON, IT IS OF THE UTMOST IMPORTANCE THAT YOU FOLLOW THE INSTRUCTIONS EACH TIME YOU USE THE POWER PACK.
 - 2) To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of the battery. Review cautionary marking on these products and on engine.
- k) PERSONAL PRECAUTIONS
 - l) When charging the internal battery, work in a well ventilated area and do not restrict ventilation in any way.
 - m) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
 - n) Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion.
 - o) Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

SAVE THESE INSTRUCTIONS

End of test report