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Jieyang Konggang District Jिंगgang Shengdali Electric Appliance Factory

UL TEST REPORT

Prepared For :	Jieyang Konggang District Jिंगgang Shengdali Electric Appliance Factory East side of Mingyue Park, Xinglu Community, Jिंगgang Street, Jieyang Konggang Economic District Guangdong Province
Product Name:	Hair Dryer
Trade Mark:	/
Model :	XP-08, 2200-2400W; 110V~ 50Hz
Additional Model:	XP-3000、XP-2030、XP-01、XP-80000, 1250-1400W; XP-4000、XP-2029、XP-02、XP-90000, 1300-1500W; XP-5000、XP-2028、XP-03、XP-180000, 1500-1800W; XP-6000、XP-2027、XP-04、XP-170000, 1600-1900W; XP-7000、XP-2026、XP-05、XP-160000, 1700-2000W; XP-8000、XP-2025、XP-06、XP-140000, 1800-2100W; XP-9000、XP-2024、XP-07、XP-100000、XP-110000、XP-120000, 2000-2300W; XP-10000、XP-2023、XP-130000、XP-150000, 2200-2400W; 110V~ 50Hz
Prepared By :	Shenzhen BST Technology Co., Ltd. Chaomei Industrial Park, Donghai Road, Yonggan Community Yantian Street, Yantian District, Shenzhen, Guangdong, China
Test Date:	Nov.10,2023 To Nov.17,2023
Date of Report :	Nov.17,2023
Report No.:	BST4152337821117130SR

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Test Report UL 859 Household Electric Personal Grooming Appliances - Safety - General requirements	
Testing laboratory	: Shenzhen BST Technology Co.,Ltd.
Address	: Chaomei Industrial Park, Donghai Road, Yongan Community Yantian Street, Yantian District, Shenzhen, Guangdong, China
Testing location	: Shenzhen BST Technology Co.,Ltd.
Applicant	: Jieyang Konggang District Jinggang Shengdali Electric Appliance Factory
Address	: East side of Mingyue Park, Xinglu Community, Jinggang Street, Jieyang Konggang Economic District Guangdong Province
Standard	: UL 859:2012
Procedure deviation	: UL859:2012+REV.1:2013+REV.2:2016+REV.3:2017+REV.4:2021+REV.5:2022
Non-standard test method	: N/A.
Type of test object	: Hair Dryer
Trademark	: /
Model/type reference	: XP-08, 2200-2400W; 110V~ 50Hz
Rating	: AC 110V 50Hz 2200-2400W
Manufacturer	: Jieyang Konggang District Jinggang Shengdali Electric Appliance Factory
Address	: East side of Mingyue Park, Xinglu Community, Jinggang Street, Jieyang Konggang Economic District Guangdong Province
Test item particulars :	
Equipment mobility	: removable
Operation condition	: Discontinuous
Class of equipment	: Class II
Protection against ingress of water . :	: N/A.
Possible test case verdicts :	
test case does not apply to the test object	: N(A.)
test object does meet the requirement	: P(ass)
test object does not meet the requirement	: F(ail)



General remarks: "(see remark #)" refers to a remark appended to the report. "(see appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator. The test results presented in this report relate only to the object tested. This report shall not be reproduced except in full without the written approval of the testing laboratory.	Attached with: A. photo documentation General product information: The series products have the same circuit diagram, PCB layout and functionality. The differences are the model name, so, we select XP-08, 2200-2400W; 110V~ 50Hz to test.
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Marking La

Hair Dryer
Model : XP-08, 2200-2400W; 110V~ 50Hz
Rated : AC 110V 50Hz 2200-2400W

UL 

Jieyang Konggang District Jinggang Shengdali
Electric Appliance Factory

Prepared by :

Zhina

Engineer

Reviewer :

[Signature]

Supervisor

Approved & Authorized Signer :

[Signature]

Manager





Testing Result Summary				
Test Property	SAT	UNSAT	DATA	COMMENTS
	Satisfactory	Unsatisfactory		
ANSI/UL 859 Household Electric Personal Grooming Appliances - Safety -	P	--	--	See Attached Test Results of Protocol UL 859
General requirements				



**SUMMARY OF TEST RESULTS FOR
ANSI/UL 859 Household Electric Personal Grooming Appliances**

TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
LABELING					
ANSI/UL 859 11th edition section 71	Ratings	An appliance shall be rated in: Volts Amperes or Watts May be rated for AC or DC current only Cord connected appliance rating when intended for 120 volt supply shall not exceed 125 volts.	X		
ANSI/UL 859 11th edition section 72.1	Markings - general	An appliance shall be legibly and permanently marked with: Manufacturer's name Date code Catalog or model number Electrical rating Additional requirements per section	X		
ANSI/UL 859 11th edition section 72.2	Markings - hair dryers	A hand, shoulder, or table supported hair dryer shall comply per section.	--	--	NA
ANSI/UL 859 11th edition section 72.3	Markings - dual voltage	An input voltage selector shall be marked to indicate each individual voltage position.	--	--	NA
ANSI/UL 859 11th edition section 72.4	Markings - hand supported hair dryers	Hand supported hair drying appliances shall comply per section.	X		
ANSI/UL 859 11th edition section 72.5	Markings - permanently installed wall mounted hair dryers	Permanently installed hair dryers shall comply per section.	--	--	NA
ANSI/UL 859 11th edition section 72.6	Markings - Hair Dryers	A hair Hair Dryer or heated comb shall comply per section.	X		
ANSI/UL 859 11th edition section 72.7	Markings - direct plug-in appliances	A direct plug-in appliance having a mounting tab shall comply per section.	X		



TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
ANSI/UL 859 11th edition section 72.8	Markings - wax depilatory appliances	A wax depilatory appliance shall be legibly and permanently marked per section.	--	--	NA
ANSI/UL 859 11th edition section 72.9	Marking - Appliances With GFCI's or Similar Protective Devices	The surface of a plug that contains a GFCI, or similar device shall comply per section.	--	--	NA
ANSI/UL 859 11th edition section 72.10	Marking - convenience receptacle of a hand supported hair dryer immersion protection device	Permanent and legible marking shall be provided near the convenience receptacle that complies per section.	X		
ANSI/UL 859 11th edition section 72.11	Marking - hand supported appliances with detachable power supply cords	Hand supported appliances provided with a detachable power supply cord shall be permanently marked as specified.	--	--	NA
ANSI/UL 859 11th edition section 73	Instruction manuals - general	An appliance shall be provided with a user instruction manual per section.	X		
ANSI/UL 859 11th edition section 74	Instruction manuals - risk of fire / shock / injury	Instructions pertaining to a risk of fire, electric shock, or injury shall comply per section depending on type of appliance.	X		
ANSI/UL 859 11th edition section 75	Installation instructions	Installation instructions shall contain all of the information specified and comply per section.	X		
ANSI/UL 859 11th edition section 76	Operating instructions	Operating instructions shall be included that contain all of the information needed to operate the appliance as intended per section.	X		
ANSI/UL 859 11th edition section 77	User maintenance instructions	Instructions for user maintenance shall include explicit instructions for all cleaning and servicing per section.	X		
ANSI/UL 859 11th edition section 83	Markings	Electrode type appliance shall be marked per section.	--	--	NA



TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
ANSI/UL 859 11th edition section 84	Operating instructions	The manufacturer shall provide operating instructions with the electrode type appliance per section.	--	--	NA
ANSI/UL 859 11th edition section 89	Wall hung hair dryers - markings	A wall unit or hanging bracket shall comply per section.	--	--	NA
ANSI/UL 859 11th edition section 90	Wall hung hair dryers - use / care	Warning instructions in compliance with instruction pertaining to a risk of fire, electric shock, or injury to persons shall be provided and comply per section.	--	--	NA
ANSI/UL 859 11th edition section 91	Wall hung hair dryers - installation instructions	Installation instruction for hanging of the wall unit as intended shall be packaged with a wall hung hair dryer and comply per section.	--	--	NA
PERFORMANCE					
ANSI/UL 859 11th edition section 6.5-6.7	Construction - hair dryer immersion protection	hair dryer immersion protection: - Shall be provided with a stand - That attains a temperature higher than specified per section shall be provided with an integral stand. - Integral stand shall comply per section.	--	--	NA
ANSI/UL 859 11th edition section 7.1-7.2	Construction - hair dryer immersion protection	A hand supported hair drying appliance shall be constructed to reduce the risk of electric shock when the appliance is energized with the power switch in either the "on" or "off" position and immersed in water by use of a GFCI, or equivalent device per section.	--	--	NA
ANSI/UL 859 11th edition section 7.5	Construction - GFCI Location	A GFCI or other protective device shall be integral with the attachment plug of the hand-supported hair-drying appliance power supply cord.	--	--	NA
ANSI/UL 859 11th edition section 7.7	Construction - hair dryer immersion protection - test switch	A switch included for testing a user resettable protective device shall be permanently marked "Test" and "Reset" on or adjacent to the switch actuator.	--	--	NA



TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
ANSI/UL 859 11th edition section 8.1	Frame / enclosure - general	The frame and enclosure of an appliance shall be sufficiently strong and rigid to resist the abuses likely to be encountered during service per section.	X		
ANSI/UL 859 11th edition section 8.5	Frame / enclosure - accessibility of live parts	An electrical part of an appliance shall be located or enclosed so that unintentional contact with any uninsulated live part and internal wiring will be prevented per section.	X		
ANSI/UL 859 11th edition section 8.6	Frame / enclosure - doors / covers	The door or cover of an enclosure shall: - Be provided with means for holding in the closed position. - Be hinged or attached if it gives access to any overload protective device which requires renewal per section.	X		
ANSI/UL 859 11th edition section 9.1	Reduction of risk of injury to persons - general	Materials that are relied upon to reduce the risk of injury to persons shall have such properties as to meet the demand of intended conditions. - Asbestos shall not be used. - Moving parts shall be enclosed or provided means to prevent unintentional contact. - Products shall have no sharp edges. - Adjustable height products shall comply per section. - Hand supported hair dryer shall have each air intake opening protected with a screen with no openings larger than specified.	X		
ANSI/UL 859 11th edition section 11	Stability	A floor or counter supported appliance shall be constructed such that it will not be overturned when subjected to 10 or 15 degree angle and tested per section.	--	--	NA
ANSI/UL 859 11th edition section 12	Hanging / mounting means	- A wall hung or wall mounted appliance shall withstand a force as described per section without evidence of damage to the mounting device. - Permanently installed appliances shall be provided with the necessary hardware for mounting in accordance with the installation instruction.	--	--	NA



TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
ANSI/UL 859 11th edition section 13.1	Supply connections - permanently connected appliances	An appliance intended for permanent connection to a power supply shall have provision for connection of one of the wiring systems that is acceptable for the appliance.	--	--	NA
ANSI/UL 859 11th edition section 13.2	Supply connections - wiring terminals	An appliance intended for permanent connection to a power supply shall be provided with wiring terminals or leads for connection of supply circuit conductors.	--	--	NA
ANSI/UL 859 11th edition section 13.3.1	Supply connections - cord connected appliances	- An appliance shall be provided with a type and length of flexible cord and attachment plug per section depending on appliance. - Ampacity of the cord and plug shall not be less than the current rating of the appliance. - Polarity identification of the flexible cord shall comply per section. - Appliances supplied with a detachable power supply cord shall comply per section.	X		
ANSI/UL 859 11th edition section 13.3.2	Supply connections - pin terminals	When an appliance is provided with pin terminals the construction and configuration shall comply per section.	--	--	NA
ANSI/UL 859 11th edition section 13.4	Supply connections - strain relief	Strain relief shall be provided such that stress on a flexible cord will not be transferred to internal wiring per section.	X		
ANSI/UL 859 11th edition section 13.6	Supply connections - direct plug-in appliances	Direct plug-in appliances shall comply per section with the maximum moment, center of gravity, dimensions, and weight.	--	--	NA
ANSI/UL 859 11th edition section 20.5	Overcurrent protection - circuit breaker handle	For other than a hand supported device if the handle of a circuit breaker is operated vertically rather than horizontally the up position of the handle shall be the on position.	X		



TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
ANSI/UL 859 11th edition section 22	Lampholders / receptacles	<ul style="list-style-type: none"> - Female screw shell used as holder for heating element shall be of copper or copper alloy and plated with nickel. - The circuit conductor of a power supply cord that is intended to be grounded shall have the screw shell of an Edison base lampholder and terminal or lead of a receptacle intended to be grounded connected to it. - Edison base lampholder shall not be used in an appliance rated over 150 volts. - Screw shell of lampholder shall not be exposed to contact by person removing or replacing lamp. - Receptacle rated 15 or 20 amp shall be of grounding type and ground contact electrically connected to dead metal. - Face of receptacle shall comply per section. - Product provided with receptacle shall not be provided with a flexible cord smaller than No. 16 AWG. 	--	--	NA
ANSI/UL 859 11th edition section 23.1.1-23.1.2	Switches - location	<ul style="list-style-type: none"> - An appliance having any driven moving part which could entrap hair, body parts or the like shall be provided with a main on-off switch. - Switch shall be located so that it can be operated by the user to turn off the appliance. 	X		
ANSI/UL 859 11th edition section 23.1.10-23.1.11	Switches - marking	<ul style="list-style-type: none"> - A switch shall have a plainly marked "OFF" position. Symbol alone is not allowable. - A hand supported hair drying appliance is not intended to be immersible and shall not be so marked. 	X		
ANSI/UL 859 11th edition section 23.2	Switches - dual voltage selector	<ul style="list-style-type: none"> - The construction of the supply circuit voltage selector shall be such that the setting cannot be changed without the use of a tool. - The action of changing the voltage selector switch shall also change the supply voltage indication. - An appliance that can be set to different rated supply circuit voltages shall be provided with the statement per section. 	--	--	NA



TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
ANSI/UL 859 11th edition section 27.1 - 27.2	Grounding	- Permanently connected appliances shall have provision for grounding of all exposed metal parts. - An appliance marked as double insulated shall not be provided with a means for grounding.	--	--	NA
ANSI/UL 859 11th edition section 27.3 - 27.4	Grounding	- If grounding means are provided all dead metal shall be reliably connected to the grounding means. - Equipment grounding conductor of a flexible cord shall comply per section.	X		
ANSI/UL 859 11th edition section 35	Strength of enclosure test	A 5 pound (22.2 N) force shall be applied per section for 1 minute to any part described. Results shall comply per section.	X		
ANSI/UL 859 11th edition section 36	Tip over test	Each of 3 samples shall be tested 3 times per section. - The critical angle of balance shall be 45 degrees or greater OR - The lid, if provided, shall remain in place and fluid emitted during the time allocated is no more than allowed per section.	--	--	NA
ANSI/UL 859 11th edition section 37	Stability test	Appliances that heat liquid or that are floor or counter supported shall be inclined at a 10 or 15 degree angle and remain stable.	--	--	NA
ANSI/UL 859 11th edition section 38	Leakage current test	The leakage current of a cord connected portable, stationary, or fixed appliance shall be no more than: - 0.5 mA for ungrounded (2 wire) portable, stationary, or fixed appliance, - 0.5 mA for grounded (3 wire) portable appliance, and - 0.75 mA for grounded (3 wire) stationary or fixed appliance.	--	--	NA
ANSI/UL 859 11th edition section 43	Power input test	- The power input to an appliance marked with a rating of 50 watts or less shall be within the range of 75 - 110 % of the rating. - If the marked rating is greater than 50 watts the power input shall be within the range of 90 - 110 % of that rating.	X		



TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
ANSI/UL 859 11th edition section 45	Dielectric voltage withstand test	An appliance, when heated to operating temperature, shall be subjected for 1 minute to test potential described per section applied between live parts and exposed dead metal parts. There shall be no dielectric breakdown.	X		1200V 1min
ANSI/UL 859 11th edition section 48	Strain relief test	Strain relief means shall withstand for 1 minute a pull of 35 pounds force (156 N) applied to the cord and comply per section.	--	--	NA
ANSI/UL 859 11th edition section 57	Grounding continuity test	The resistance of the grounding path between dead metal part of an appliance and the equipment grounding terminal or lead or the point of attachment of the wiring system or the grounding blade of an attachment plug shall be no more than 0.1 ohm.	--	--	NA
ANSI/UL 859 11th edition section 59	Mounting means strength test	The appliance is to be mounted in accordance with manufacturer's installation instruction per section. A gradually increasing force is to be applied per section and sustained for one minute. Results shall show no damage to the mounting surface, to the hanging means, or to the appliance.	--	--	NA
ANSI/UL 859 11th edition section 79	Electrode type appliances - construction	An electrode type Hair Dryer or attachment shall comply per section.	--	--	NA
ANSI/UL 859 11th edition section 81	Electrode type appliances - leakage current test	An electrode type appliance shall be constructed so contact to energized water by the probe is prevented. Leakage current shall not be more than 0.5 mA.	--	--	NA
ANSI/UL 859 11th edition section 86	Wall hung hair dryers - general	The appliance shall comply with the applicable requirements specified per sections. The hand unit shall comply with the applicable requirements for a hand held hair dryer.	--	--	NA



TEST CODE	TESTED PROPERTY	REQUIREMENT	RESULTS		COMMENTS
			Pass	Fail	
ANSI/UL 859 11th edition section 87	Wall hung hair dryers - construction	The appliance shall be provided with all the hardware necessary for hanging the wall unit in accordance with the installation instruction. The construction shall be such that the appliance withstands the force specified per section without damage to the supporting surface, to the hanging means, or to the appliance that results in the risk of fire, electric shock, or injury to persons.	--	--	NA
ANSI/UL 859 11th edition section 88.1	Wall hung hair dryers - performance	As part of the investigation a wall hung hair dryer shall be trial installed to determine that the installation is feasible and that the instructions are detailed and correct.	--	--	NA

IMPORTANT NOTICE: Please review the Actual Products against the updated Requirements/Regulation. Prior to testing and communicate with clients if additional test required. This protocol is the basic guidelines to follow and does not replace the content of the standard.



Photo-documentation



*****End of report*****