

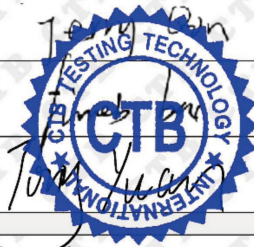


TEST REPORT IEC 62368-1 Audio/video, information and communication technology equipment Part 1: Safety requirements	
Report Number	CTB25090108102RS01
Date of issue	May 12, 2026
Total number of pages	82
Testing laboratory	
Name	Shenzhen CTB Testing Technology Co., Ltd.
Address	1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
Applicant's name	
Name	Landy (Guangzhou) Plastic Products Co., Ltd.
Address	No. 215 Shipai Industrial Zone, Dongchong Town, Nansha District, Guangzhou, China
Test specification:	
Standard	EN IEC 62368-1:2024+A11:2024
Test procedure	Safety report
Non-standard test method	N/A
TRF template used	
TRF template used	IECEE OD-2020-F1:2024, Ed.1.7
Test Report Form No	IEC62368_1F
Test Report Form(s) Originator	UL Solutions (US)
Master TRF	Dated 2025-06-13
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Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. The tested sample(s) and the sample information are provided by the applicant. The authenticity, accuracy, and completeness of the provided information are the sole responsibility of the applicant. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The result decision rules of our laboratory are based solely on the direct comparison between the actual measured values of test results and the standard limits, without considering the measurement uncertainty. "★" indicates the testing items were fulfilled by subcontracted lab. "※" indicates the items are not in CNAS accreditation scope.	

Test item description:	Automatic Pool Cover Control Box
Trademark(s):	Landy
Manufacturer:	Landy (Guangzhou) Plastic Products Co., Ltd.
Address:	No. 215 Shipai Industrial Zone, Dongchong Town, Nansha District, Guangzhou, China
Model/Type reference:	2150-DC, 2150-AC, 4500, 9500
Ratings:	110-240VAC, 50/60Hz, 2.68A, 350W

Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):

<input checked="" type="checkbox"/>	Testing Laboratory:	Shenzhen CTB Testing Technology Co., Ltd.
	Testing location/ address:	1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
	Compiled by (name, signature):	Jerry Qin
	Reviewed by (name, signature):	Finerb Bai
	Approved by (name, signature):	Tony Yuan



List of Attachments (including a total number of pages in each attachment):

ATTACHMENT 1: EN IEC 62368-1:2024+A11:2024 NATIONAL DEVIATION (23 pages).
 ATTACHMENT 2: PHOTO DOCUMENTATION(7 pages).

Summary of testing:

Tests performed (name of test, test clause and date test performed): Full test, tested on model 2150-DC	Testing location: Shenzhen CTB Testing Technology Co., Ltd. 1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China
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Summary of compliance with National Differences (List of countries addressed):

EU group differences.CENELEC member countries (EU group differences): Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland.

The product fulfils the requirements of EN IEC 62368-1:2024+A11:2024.

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized.

Automatic Pool Cover Control Box		
Model: 2150-DC		
Input: 110-240V~, 50/60Hz, 2.68A, 350W		
		
Importer: xxx	Address: yyy	
Landy (Guangzhou) Plastic Products Co., Ltd.		
No. 215 Shipai Industrial Zone, Dongchong Town, Nansha District, Guangzhou, China		
Made in China		

Remark for above marking:

1. The height of graphical symbols shall not be less than 5 mm;
2. The height dimension of CE mark should not less than 5mm, the height dimension of WEEE symbol should not less than 7mm;
3. The main rating label was attached on enclosure.

Note: xxx means importer company name; yyy means importer company address information. Alternatively, Importer and importer address information provided in the instructions.

Test item particulars:	
Product group	<input checked="" type="checkbox"/> end product <input type="checkbox"/> built-in component
Classification of use by	<input checked="" type="checkbox"/> Ordinary person <input checked="" type="checkbox"/> Children likely present <input checked="" type="checkbox"/> Instructed person <input checked="" type="checkbox"/> Skilled person
Supply connection	<input checked="" type="checkbox"/> AC mains <input type="checkbox"/> DC mains <input type="checkbox"/> not mains connected <input type="checkbox"/> ES1 <input type="checkbox"/> ES2 <input type="checkbox"/> ES3
Supply tolerance	<input checked="" type="checkbox"/> +10%/-10% <input type="checkbox"/> +20%/-15% <input type="checkbox"/> + %/ - % <input type="checkbox"/> None
Supply connection – type	<input type="checkbox"/> pluggable equipment type A - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> direct plug-in <input type="checkbox"/> pluggable equipment type B - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input checked="" type="checkbox"/> permanent connection <input type="checkbox"/> mating connector <input type="checkbox"/> other: <input checked="" type="checkbox"/> 16A for building
Considered current rating of protective device	Location: <input checked="" type="checkbox"/> building <input type="checkbox"/> equipment <input type="checkbox"/> N/A
Equipment mobility	<input type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> direct plug-in <input checked="" type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> wall/ceiling-mounted <input type="checkbox"/> SRME/rack-mounted <input type="checkbox"/> other:
Overvoltage category (OVC)	<input type="checkbox"/> OVC I <input checked="" type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other:
Class of equipment	<input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class II with functional earthing <input type="checkbox"/> Class III <input type="checkbox"/> Not classified <input type="checkbox"/>
Special installation location	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> restricted access area <input type="checkbox"/> outdoor location <input type="checkbox"/>
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
Manufacturer's specified T_{ma}	65 °C <input type="checkbox"/> Outdoor: minimum °C
IP protection class	<input checked="" type="checkbox"/> IPX0 <input type="checkbox"/> IP__
Power systems	<input checked="" type="checkbox"/> TN <input checked="" type="checkbox"/> TT <input type="checkbox"/> IT - V _{L-L} <input type="checkbox"/> not AC mains
Altitude during operation (m)	<input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> m
Altitude of test laboratory (m)	<input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> m
Mass of equipment (kg)	Approx. 3.07 kg

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)	
Testing: Date of receipt of test item.....: Sep. 25, 2025 Date (s) of performance of tests.....: Sep. 25, 2025 to Oct. 16, 2025	
General remarks: "(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 <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.	
Name and address of factory (ies).....: Landy (Guangzhou) Plastic Products Co., Ltd No. 215 Shipai Industrial Zone, Dongchong Town, Nansha District, Guangzhou, China	
General product information and other remarks: - This equipment is "Automatic Pool Cover Control Box" for indoor use only. - The product was submitted and evaluated for use at the maximum ambient temperature (Tma) permitted by the manufacturer's specification of: 65°C. - Instructions and equipment marking related to safety is applied in the language that is acceptable in the country in which the equipment is to be sold. - All models are identical to each other except for model name, unless otherwise specifies, all tests were performed on model "2150-DC".	

OVERVIEW OF ENERGY SOURCES AND SAFEGUARDS				
Clause	Possible Hazard			
5	Electrically-caused injury			
Class and Energy Source (e.g. ES3: Primary circuit)	Body Part (e.g. Ordinary)	Safeguards		
		B	S	R
ES3: Primary circuits supplied by AC mains supply	Ordinary	N/A	N/A	Approved built-in power supply units, 5.3.2, 5.4.2, 5.4.3, 5.5.3, 5.5.4.
ES1: Built-in Power output	Ordinary	N/A	N/A	N/A
ES1: Accessible enclosure	Ordinary	N/A	N/A	N/A
6	Electrically-caused fire			
Class and Energy Source (e.g. PS2: 100 Watt circuit)	Material part (e.g. Printed board)	Safeguards		
		B	1 st S	2 nd S
PS3	Built-in power supply	See 6.3.1	Approved built-in power supply units	N/A
PS3	Printed board	See 6.3.1	V-0	N/A
PS3	Internal wiring	See 6.3.1	See 6.5 (Equipment safeguards, rated VW-1)	N/A
PS3	Other combustible components / materials	See 6.3.1	See 6.4.5, 6.4.6	N/A
PS3	Built-in Power output	N/A	Approved built-in power supply units, PCB: V-0, plastic enclosure: V-0	N/A
7	Injury caused by hazardous substances			
Class and Energy Source (e.g. Ozone)	Body Part (e.g., Skilled)	Safeguards		
		B	S	R
N/A	N/A	N/A	N/A	N/A
8	Mechanically-caused injury			
Class and Energy Source (e.g. MS3: Plastic fan blades)	Body Part (e.g. Ordinary)	Safeguards		
		B	S	R
MS1: Equipment Mass	Ordinary	N/A	N/A	N/A
MS1: Sharp edges and corner of product	Ordinary	N/A	N/A	N/A
9	Thermal burn			

IEC 62368-1

Clause	Requirement + Test	Result - Remark	Verdict
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Supplementary information:			
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IEC 62368-1					
Clause	Requirement + Test			Result - Remark	Verdict
4.1.2	TABLE: List of critical components				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Plastic enclosure	SABIC INNOVATIVE PLASTICS US LL C	945 (GG)	Min. 2.5 mm, V-0, 120°C	UL 94	UL
Fuse (F2)	Dongguan Reomax Electronics Technology Co., Ltd.	MTS	T6.3AL/250V	UL 248-1 UL 248-14 IEC/EN 60127-1 IEC/EN 60127-3	VDE 40039420
Rocker Switch	LECI Electronics Co., Ltd	1E4	16A, 125/250VAC	IEC/EN 61058-1 IEC/EN 61058-1-1	VDE
Terminal block	SHANGHAI ELINKER ELECTRIC CO LTD	TB1-15	Min.300VAC, min. 15A, plastic material V-0, min. 1.0mm thickness	UL 1059	UL E340097
PCB	MEI ZHOU ZHI KE CIRCUIT BOARD CO LTD	ZK-2	V-0, 130 °C	UL 796	UL E320262
Alternative	Interchangeable	Interchangeable	V-0 or better, 130°C	UL796	UL
Built-in power supply	MEAN WELL ENTERPRISES CO.,LTD.	HLG-350-25	Input: 100-240Vac, 50/60Hz, 2.68A; Output: 25Vdc, 14A	EN IEC 62368-1	IEC Standard approved
Internal wire (AC input wire and earth wire)	Zhongshancity Defang	H05RN-F	3 X 0.75 mm ²	IEC 60245-4	VDE 40049745
Internal wire(DC wire)	Zhongshancity Defang	H05RN-F	2 X 1.0 mm ²	IEC 60245-4	VDE 40049745
Supplementary information:					
¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

PHOTO DOCUMENTATION_ATTACHMENT 2



Photo 1: External view



Photo 2: External view

Shenzhen CTB Testing Technology Co., Ltd.

Add: 1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China

Tel: 4008-707-283

Web: <http://www.ctb-lab.net>

Email: ctb@ctb-lab.net



Photo 3: External view

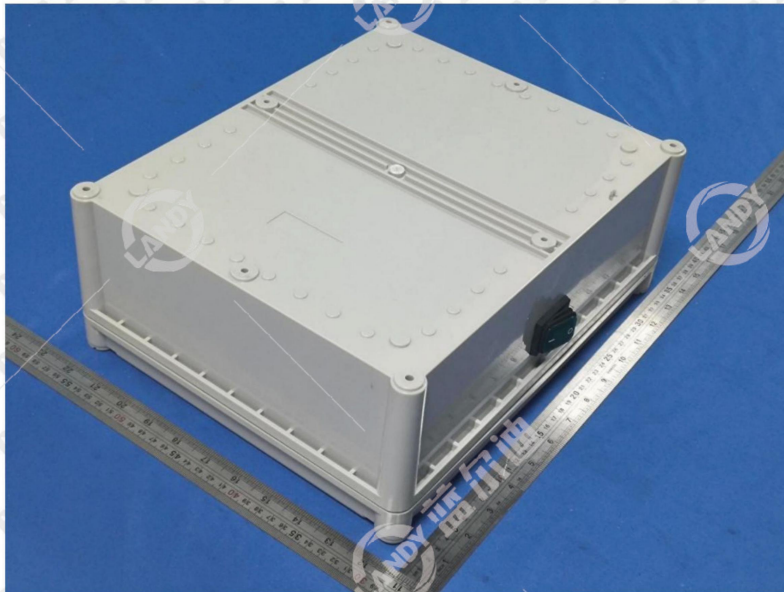


Photo 4: External view



Photo 5: Switch view



Photo 6: Internal view

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Photo 7: Internal view



Photo 8: Internal view

Shenzhen CTB Testing Technology Co., Ltd.

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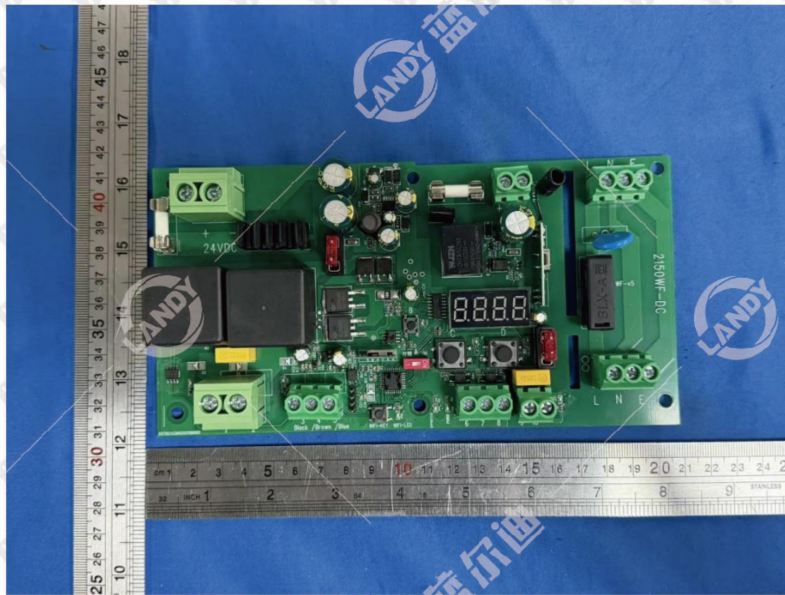


Photo 9: PCB view

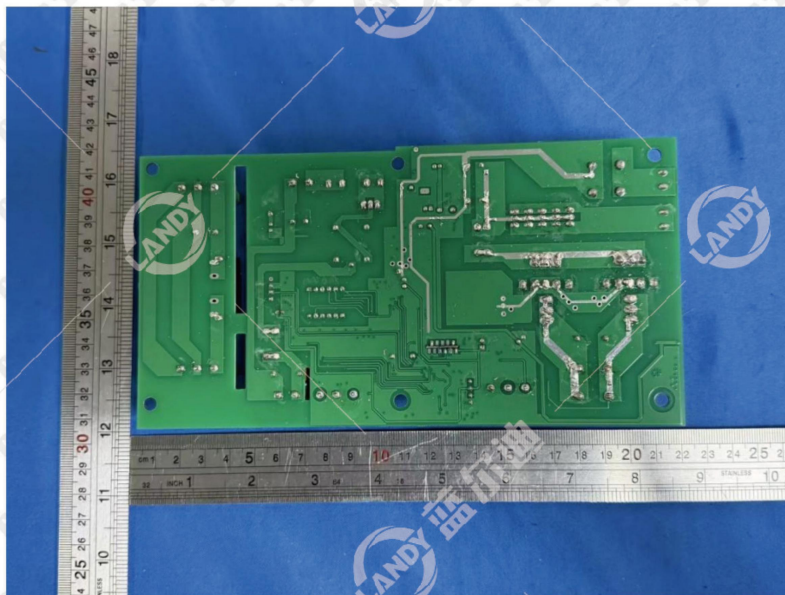


Photo 10: PCB view

Shenzhen CTB Testing Technology Co., Ltd.

Add: 1&2/F., Building A, No.26, Xinhe Road, Xinqiao, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China

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Photo 11: Built-in power supply view



Photo 12: Built-in power supply view

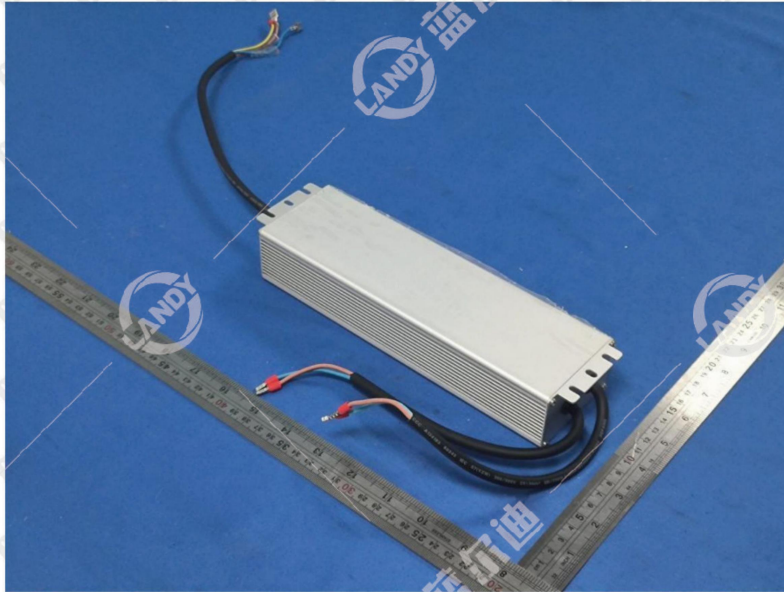


Photo 13: Built-in power supply view



Photo 14: Built-in power supply view

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