

TEST REPORT

UL 1082

Standard for Household Electric Coffee Makers and Brewing-Type Appliances CSA C22.2 No.64.19

Household cooking and liquid-heating appliances

Household	cooking and liquid-heating appliances
Report reference No	ESTS-P21063022
Tested by (printed name and signature)	Tom Nie
Approved by: (printed name and signature)	Jimmy Liang
Date of issue	2021-07-03
Testing laboratory	EST Technology Co., Ltd.
Address	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China
Test location:	Same as above
Applicant	Arovast Corporation
Address	1202 N Miller St. Suite A, Anaheim, CA 92806,USA
Manufacturer	Same as Factory
Address	Same as Factory
Standards	UL 1082 6th Ed.,dated 2009-03-17 ,rev.2017-09-28; CSA C22.2 NO.64-19, dated 2019-05-01.
Test Procedure	Test report
Non-standard test method:	N/A
Type of test equipment:	Original Automatic Coffee Warmer
Trade mark	COSORI
Model/Type designation:	CO294-CW
Rating:	Adaptor input:100-240Vac,50/60Hz, 0.8A Adaptor output:12Vdc,3A(JK120300-S23USD) or 12Vdc, 2.5A(XH1200-2500W) Product input:12Vdc, 24W
TRF originator:	EST Technology Co., Ltd.
Copyright blank test report:	EST Technology Co., Ltd.
Test item particulars:	
Equipment mobility	Portable appliance
Operating Condition	Continuous
Tested for IT power systems	No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	Class III equipment



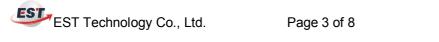
List Attachments (Including a total number of pages in each attachment):

-Attachments 1: Photo documentation (4 pages)

Copy of marking plate(s):



Remark:



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	2021-06-30
Date (s) of performance of tests	2021-06-30~2021-07- 02
GENERAL REMARKS:	
"(See Enclosure #)" refers to additional information "(See appended table)" refers to a table appended to Throughout this report a ☐ comma / ☒ point is	o the report.
Name and address of factory (ies):	Dongguan Raiwee Electronic Technology Co., Ltd
	Building 11, Antouling Industry Avenue, Qinghu Village, Qishi Town, Dongguan, Guangdong, China
GENERAL PRODUCT INFORMATION:	
1: The products covered by this report are Original Corpowered by directly-plugged-in LPS or Class 2 adaptor	fee Warmer, intended for indoor and household use only, terminated in non-polarized 1-15P plug.

UL 1082					
Clause	Requirement + Test	Result - Remark	Verdict		
6	General		Р		
7	Frame and Enclosure	See appendix A.	Р		
8	Assembly		Р		
9	Handles	No handles provided.	Р		
10	Corrosion Protection	Stainless steel employed.	Р		
11	Supply Connections	No power cord.	N/A		
12	Current-Carrying Parts	,	Р		
13	Internal Wiring	See appendix A	Р		
14	Secondary Circuits	Powered by UL approved Class2 or LPS adaptor, no need to evaluate on this clause.	N/A		
15	Heating Elements		Р		
16	Electrical Insulation	See appendix A	Р		
17	Thermal Insulation	No thermal insulation employed	N/A		
18	Thermal Cutoffs	See appendix A	N/A		
19	Lampholders		N/A		
20	Switches		N/A		
21	Dual Voltage Appliance		N/A		
22	Controls and Control Circuits	Auxiliary and regulating controls provided.	Р		
22A	Electromechanical and Electronic Controls	'	N/A		
22B	Controls – End Product Test Parameters	Auxiliary and regulating c ontrols provided.UL approved NTC sensor provided.	Р		
22C	Capsule-Type Brewing Appliance Controls		N/A		
23	Overheating Protection	UL approved thermal link provided.	Р		
24	Spacings		Р		
24A	Spacings on Printed-Wiring Boards		N/A		
25	Grounding		N/A		
26	Protection Against Injury to Persons		Р		
26A	Ground-Fault, Arc- Fault, and Leakage Current Detectors/Interrupters		N/A		
26B	Surge Protective Device		N/A		
27	Pressure Vessels and Parts Subject to Pressure		N/A		
28	General		N/A		
29	Resistance of Grounding Test		N/A		
30	Power Input		Р		

INSTRUCTION MANUAL

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Ρ

UL 1082 Result - Remark Clause Requirement + Test Verdict 31 Leakage Current Test Ρ 32 **Operational Tests** Ρ Ρ 33 **Normal Temperature Tests** Ρ 34 Leakage Current as a Result of Moisture Tests Ρ 35 Dielectric Voltage-Withstand Test 36 **Broken Element Test** N/A N/A 37 Strain Relief Test 38 Push-Back Relief Test N/A Ρ 39 Metal Enclosure Impact Tests 40 Thermal Degradation N/A 41 Handle Securement Tests N/A 42 N/A Under- Cabinet and Wall Mounted Appliances-Impact Test 43 Loading Test N/A Stability Test Ρ 44 45 Tip Over Test N/A 46 **Dynamic Stability Test** N/A 46A Hydrostatic Pressure Tests for Parts Subject to Pr N/A essure 46B Open Brew Chamber Test -N/A **Pressure Brewing Appliances** 46C Brew Chamber Blockage Following Mold Stress T N/A est for Capsule-Type Brewing Appliances Ρ 47 **Abnormal Operation Tests** Ρ 48 Component Failure Test 49 **Automatic Controls Test** Ρ 50 Permanence of Marking Tests N/A **MARKINGS** Р



	CSA C22.2 No.64	.19	
Clause	Requirement + Test	Result - Remark	Verdict
5	Construction	See table A	Р
6	Markings	See page 2	Р
7	Tests	See below test results	Р
7.1	General		Р
7.2	Rating		Р
7.3	Temperature (normal)		Р
7.4	Temperature (abnormal)		Р
7.5	Dielectric strength		Р
7.6	Flexing and detachment (power supply cords and cord sets)	No power supply cord	N/A
7.7	Flexing (internal wiring)	No internal wiring subjected to flexing	N/A
7.8	Leakage current		Р
7.9	Performance of manually operated switches		Р
7.10	Performance of automatic temperature controls		Р
7.11	Performance of fusible links		Р
7.12	Aging of water seals	No such sealing parts	N/A
7.13	Physical abuse		Р
7.14	Backflow	No connected to water main. No need to subject to this test.	N/A
7.15	Stability		Р
7.16	Insertion endurance		N/A
7.17	Investigation of fibreglass sleeving (over bare cond uctors used as wiring)		N/A
7.18	Thermoset material aging		N/A
7.19	Insulating liner investigation		N/A
7.20	Electric toilets — Spillage		N/A
7.21	Performance of appliances having PTC heaters		N/A
7.22	Thermal endurance (rope heater element)		N/A
7.23	Mechanical endurance (cord reels)		N/A
7.24	Open-coil heating element breakage		N/A
7.25	Strength of handles:		N/A



Table A	Table A TABLE: List of critical components				Р
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Adaptor	JUKEELECTRON IC(HK)COLTD	JK120300- S23USD	Rated input: 100-240Vac, 50/60Hz, 0.8A, output12Vdc, 3A. LPS.	UL60950-1 CSAC22.2No.60 950-1	cULus
(Alternative)	XIAMEN XUNHENG ELECTRONICS TECH CO LTD	XH1200- 2500W	Rated input 100- 240Vac, 50/60Hz, 0.8A, output 12Vdc, 2.5A. Class 2.	UL 1310 CSA C22.2 No.223	cULus
Top Cover	Interchangeable	Interchangeable	Stainless steel. 0.7 mm thick. Secured by screws.	N/A	NR
Control Panel	Interchangeable	Interchangeable	PMMA. Rated HB, 80°Cat least.	UL 94, CSA C22.2 No. 0.17	cURus
Lower Enclosure	SABIC JAPAN L L C	945 (GG)	PC. Rated V-0, 120oC. 2.0 mm thick. Secured by screws.	UL 94, CSA C22.2 No. 0.17	cURus
Power Inlet	Interchangeable	Interchangeable	Rated 12Vdc, 3A.	N/A	NR
Upper Enclosure	SABIC JAPAN L L C	945 (GG)	PC. Rated V-0, 120oC. 1.5 mm thick. Secured by scre ws.	UL 94, CSA C2 2.2 No. 0.17	cURus
Closed-end Connector	Interchangeable	Interchangeable	Rated 105°C.	UL 486A- 486B CSA C22.2 No. 65	cURus
Internal Wire	Interchangeable	3232	Rated 3k Vdc, 200°C. Min.22AW G for connecting to Thermal Link and Power Inlet.	UL 758 & CSA- C22.2 No. 15	cURus
(Alternative)	Interchangeable	3135	Rated 600Vac, 200°C. Min.22AW G for connecting to Thermostat.	UL 758 & CSA- C22.2 No. 15	cURus
(Alternative)	Interchangeable	1332	Rated 300Vac, 200°C. Min.24AW G for connecting to NTC Sensor	UL 758 & CSA- C22.2 No. 15	cURus
PWBs	Interchangeable	Interchangeable	Rated V-1, 130°C. 1.2 mm thick	UL 796	UR
Heating Plate	Interchangeable	Interchangeable	Stainless steel. 2.0 mm thick	N/A	NR
Sealing Pad	Interchangeable	Interchangeable	SIR. Rated V-0, 150°C. 2.2 mm thick	UL 94, CSA C2 2.2 No. 0.17	cURus
Heater Back Cover	SABIC JAPAN L L C	945 (GG)	PC. Rated V-0, 125°C. 1.6 mm thick	UL 94, CSA C22.2 No. 0.17	cURus

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Thermal Link	DONGGUAN	H10/D10/HT 150	Rated 250Vac, 10A,	UL 60691	cURus
	HONGDA		Tf=150°C.	CSA E60691	
	ELECTRONIC				
	TECHNOLOGY				
	CO LTD				
NTC Sensor	Interchangeable	Interchangeable	It consists of	N/A	NR
			following parts.		
NTC Resistor	Interchangeable	Interchangeable	Rated 100k ohm at 25	UL 1434	cURus
			°C.	UL 60730-1	
				CSA-	
				E60730-1	
Housing	Interchangeable	Interchangeable	Stainless steel.	N/A	NR
			0.2 mm thick.		
Thermostat	FOSHAN HESHU	BW-DCM	Rated 125V, 8A.	UL 60730- 1&-	cURus
	O METAL ELECT		Tset- point=120°C.	2-9	
	RICAL APPLIANC			CSA C22.2	
	ES CO LTD			No.60730	
				-1&-2-23	
Heater Assembly	Interchangeable	Interchangeable	Rated 12Vdc, 24W.	N/A	NR
			It consists of		
			following parts.		
Heating Element	Interchangeable	Interchangeable	304. 0.06 mm thick.	N/A	NR
Film	Interchangeable	Interchangeable	PI film. Rated V-	UL 94, CSA C2	cURus
			0, 220°C.	2.2 No. 0.17	

Supplementary information:

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Figure 2: Overview

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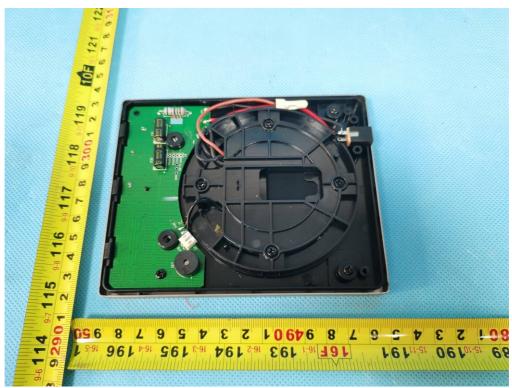


Figure 3: Overview



Figure 4: Internal view

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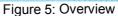




Figure 6: Internal view

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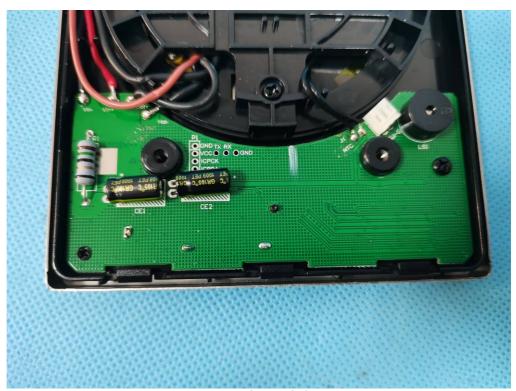


Figure 7: Internal view

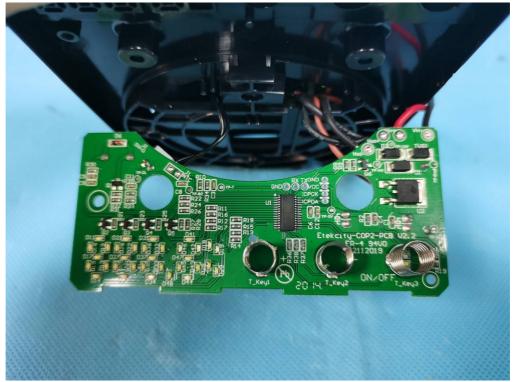


Figure 8: Internal view