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CUSTOMER NAME <Ningbo HengChuang>

TEST REPORT

SCOPE OF WORK

OFF MODE, STANDBY MODE, AND NETWORKED STANDBY ENERGY CONSUMPTION – HOT-AIR FRYER [REFER TO PAGE 2]

REPORT NUMBER

2503B0410SHA-001

ISSUE DATE[DD-MM-YYYY]

20-03-2025

PAGES

13

DOCUMENT CONTROL NUMBER

TTRF No. HA EU-ERP ED05 (09-May-2023)

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TEST REPORT

REQUIREMENTS FOR OFF MODE, STANDBY MODE, AND NETWORKED STANDBY ENERGY CONSUMPTION ACCORDING TO THE COMMISSION REGULATION (EU) 2023/826

Part of underlying framework Directive 2009/125/EC, of the European Parliament and of the Council with regard to ecodesign requirements for off mode, standby mode, and networked standby energy consumption of electrical and electronic household and office equipment

Applicant, identification of the test sample

Applicant	Ningbo HengChuang Electric Appliance Co., LTD.
Address	No.58 Jinjia, Chengzhong Village, Zhouxiang Town, Cixi City, Zhejiang Province,China
Factory	Same as Applicant
Address	Same as Applicant
Type of appliance	Hot-air fryer
Intended use	For food processing
Brand name	--
Model/Type reference	HC-8002EH, HC-8002ETH, HC-8003EH, HC-8003EAH, HC-8003ETH, HC-8003EATH, HC-8005EH, HC-8005EAH, HC-8005EATH, HC-8005ETH, HC-1101EH, HC-1101ETH, HC-1102EH, HC-1102ETH
Serial number	N/A (Engineering sample)
Receipt condition	Intact
Sample receipt date	March 6, 2025
Test date	March 20, 2025
Electrical data	220-240V~, 50/60Hz, Class I HC-1101EH, HC-1101ETH, HC-1102EH, HC-1102ETH: 2300W Other models: 2200W

Remark: N/A.

Summary of test result:

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Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

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The power consumption of HC-1011ETH in standby mode without display is 0,29W (required to be not greater than 0,50W).
(HC-1101EH, HC-1101ETH, HC-1102EH, HC-1102ETH are same circuit except for appearance)

The power consumption of HC-8002ETH in standby mode without display is 0,22W (required to be not greater than 0,50W).
(HC-8002EH, HC-8002ETH are same circuit except for appearance)

The power consumption of HC-8003ETH in standby mode without display is 0,26W (required to be not greater than 0,50W).

(HC-8003EH, HC-8003ETH, HC-8005EH, HC-8005ETH are same circuit except for appearance)

The power consumption of HC-8003EATH in standby mode without display is 0,24W (required to be not greater than 0,50W).

HC-8003EAH, HC-8003EATH, HC-8005EAH, HC-8005EATH are same circuit except for appearance)

The result is in compliance with the requirements of the COMMISSION REGULATION (EU) 2023/826.

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Standard and environmental condition

Test laboratory	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address	Bl No.86, 1198 Qinzhou Road (North), Shanghai, China 200233
Standard applied	EN 50564: 2011 + (EU) 2023/826
Tested at	230VAC / 50 Hz
Ambient temp.	23°C
Air speed close to the EUT (≤0.5 m/s)	0.25m/s
Crest factor of test voltage (1,34 - 1,49)	1,42
VTHD(%)	2%
Measuring device	Yokogawa WT310E Power Meter Inventory number: EC5405
Set-up and circuits used for electrical testing	See Page 11 Testing circuit

Measurement conditions

Operating condition	Off-mode
Method used	Sampling method (clause 5.3.2 EN 50564: 2011 + (EU) NO 2023/826
Comments	The appliance is connected to the mains power source and is not providing any function. The timer or switch of the appliance was set at “off” position.

Operating condition	Standby
Method used	Sampling method (clause 5.3.2 EN 50564: 2011 + (EU) NO 2023/826
Comments	The appliance is connected to the mains power source and with or without information display.

Measurements uncertainty:

Measurements of power of 0,50 W or greater are made with an uncertainty of less than or equal to 2 % at the 95 % confidence level. Measurements of power of less than 0,50 W are made with an uncertainty of less than or equal to 0,01 W at the 95 % confidence level.

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Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

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Test and verification results

Annex III of (EU) 2023/826			
Clause	Ecodesign requirements,	Result - Remark	Verdict
1	Energy efficiency requirements:		-
(a)	Power consumption in 'off mode':		-
	Power consumption of equipment in any off-mode condition shall not exceed 0,50 W (Valid to 8 May 2027)		N/A
	Power consumption in 'off mode': Power consumption of equipment in any off-mode condition shall not exceed 0,30 W (from 9 May 2027)		N/A
(b)	Power consumption in 'standby mode(s)':		-
	The power consumption of equipment in any condition providing only a reactivation function, or providing only a reactivation function and a mere indication of enabled reactivation function, shall not exceed 0,50 W	HC-1011ETH: 0,29W HC-8002ETH: 0,22W HC-8003ETH: 0,26W HC-8003EATH: 0,24W	P
	The power consumption of equipment in any condition providing only information or status display, or providing only a combination of reactivation function and information or status display, or providing only a reactivation function and an indication of enabled reactivation function and information or status display shall not exceed 0,80 W.		N/A
	Networked equipment that has one or more standby modes shall comply with the requirements for those standby modes when all wired network ports are disconnected and all wireless network ports are deactivated.		N/A
(c)	Power consumption in networked standby:		-
	The power consumption of HiNA equipment or equipment with HiNA functionality, in networked standby shall not exceed 8,00 W (Valid to 8 May 2027)		N/A
	The power consumption of HiNA equipment or equipment with HiNA functionality, in networked standby shall not exceed 7,00 W (from 9 May 2027)		N/A
	The power consumption of networked equipment, other than HiNA equipment or equipment with HiNA		N/A

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	functionality, in networked standby shall not exceed 2,00 W.		
	The power consumption limits shall not apply to: — large format printing equipment; — desktop thin clients, workstations, mobile workstations, and small-scale servers as defined in Regulation (EU) No 617/2013.		N/A
2	Functional requirements:		-
(a)	Availability of off mode and standby mode:		-
	Unless this is inappropriate for the intended use, equipment shall provide one or more of the following conditions: — off mode, — standby mode, — another condition which does not exceed the applicable power consumption requirements for off mode or standby mode when the equipment is connected to the mains power source.	Standby mode provided.	P
(b)	Power management function for all equipment other than networked equipment:		-
(1)	Unless inappropriate for the intended use, equipment shall provide a power management function. When equipment is not providing a main function, and another energy-related product is not dependent on its functions, the power management function shall switch equipment, after the shortest possible period appropriate for the intended use of the equipment, automatically into either of the following conditions: — standby mode, — off mode, — another condition which does not exceed the applicable power consumption requirements for off mode or standby mode when the equipment is connected to the mains power source.	Automatically into Standby mode when not used.	P
(2)	For household coffee machines, the period referred to in point (1) shall be as follows: — for drip filter household coffee machines storing the coffee in an insulated jug, a maximum of five minutes; — for drip filter household coffee machines storing the coffee in a non-insulated jug, a maximum of 40 minutes; — for household coffee machines other than drip filter household coffee machines, a maximum of 30 minutes.		N/A

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(3)	The period referred to in point (1) shall not exceed 20 minutes. (Except for household coffee machines)	5 minutes	P
(4)	The power management function described in point (1) shall be activated when the equipment is placed on the market or put into service and activated with its initial setup after the equipment is reset to its factory default settings.		P
(5)	The equipment may offer the user the option to deactivate the power management function. In such cases the users shall be warned about the increased energy consumption of that action. That warning shall be included in the instruction manuals and, where applicable, be made available on the displays integrated in or connected to the equipment, excluding information or status displays. That option shall not be part of the installation procedure of the equipment and shall require a separate user action on the equipment.	Can not deactivate the power management function	N/A
(c)	Power management for networked equipment:		-
	Unless inappropriate for the intended use, equipment shall provide a power management function. When equipment is not performing a main function, and another energy-related product is not dependent on its functions, the power management function shall switch equipment, after the shortest possible period appropriate for the intended use of the equipment, automatically into networked standby. That period shall not exceed 20 minutes.		N/A
	In networked standby, the power management function may switch equipment automatically into standby mode or off mode or another condition, which does not exceed the applicable power consumption requirements for standby or off mode.		
	The power management function shall be available for all network ports of the networked equipment.		N/A
	Unless all network ports are deactivated, the power management function shall be activated when the equipment is placed on the market or put into service. After the equipment is reset to its factory default settings, the power management function shall be activated if any of the network ports is activated.		N/A
	The equipment may offer the user the option to deactivate the power management function. In such cases, the user shall be warned about the increased energy consumption of that action. That warning shall be included in the instruction manuals and, where applicable, be made available on the displays integrated in or		N/A

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	connected to the equipment. That option shall not be part of the installation procedure of the equipment and shall require a separate user action on the equipment.		
	Networked equipment other than HiNA equipment shall comply with the requirements set out in point 2(b) when all wired network ports are disconnected and all wireless network ports are deactivated.		N/A
(d)	Possibility of deactivating wireless network connections:		-
	Any networked equipment that can be connected to a wireless network shall offer the user the possibility to deactivate the wireless network connections. That requirement does not apply to equipment that relies on a single wireless network connection for intended use and have no wired network connection.		N/A
(e)	The indication 'standby' and its translations in all Union official languages shall not be used in describing, either alone or in combination with other information, any condition in which the equipment is not compliant with the requirements set out in points 1(b) or 1(c).		P
3	Information requirements		-
(a)	The instruction manuals for end-users, and free access websites of manufacturers, importers or authorised representatives shall include the following information for all equipment, as applicable:		-
(1)	for each off mode, standby mode (or another condition which does not exceed the applicable power consumption requirements for off mode or standby mode) and networked standby into which the equipment is switched by the power management function or similar function: — the power consumption expressed in watts rounded to the first decimal place; — the period after which the equipment reaches automatically standby mode, off mode or networked standby in minutes and rounded to the nearest minute;	Declared by manufacturer	P
(2)	the power consumption of the equipment in networked standby if all wired network ports are connected and all wireless network ports are activated;		N/A
(3)	For equipment that needs an external power supply, but it is placed on the market without one, the manufacturer, importer or authorised representative shall provide information on the technical characteristics of the product model of the external power supply to be used with that equipment.		N/A
(4)	guidance on how to activate and deactivate wireless network ports.		N/A
	As an alternative, information in points (1), (2) and (3) can be provided in the instruction manuals for end-users in the form of a link to this information in the free access	Declared by manufacturer	P

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	websites of manufacturers, importers or authorised representatives.		
(b)	The technical documentation for the purposes of conformity assessment pursuant to Article 4 shall contain the following elements:		-
(1)	category of equipment: — specification whether it is networked or non-networked equipment; — for networked equipment, specification whether it is HiNA equipment, equipment with HiNA functionality, or other networked equipment; where no information is provided, the equipment is not considered HiNA equipment or equipment with HiNA functionality;	Declared by manufacturer	P
(2)	for each off mode, standby mode and networked standby: — the declared value of the power consumption in watts rounded to the first decimal place; — the measurement method used; — a description of how the equipment mode was selected or programmed; — the sequence of events leading to the condition where the equipment automatically changes modes; — any notes regarding the operation of the equipment, e.g. information on how the user switches the equipment into networked standby; — if applicable, the default time needed for the equipment to reach the applicable low power mode or condition in minutes and rounded to the nearest minute;	Declared by manufacturer	P
(3)	for networked equipment: — the number and type of network ports and, with the exception of wireless network ports, where those ports are located on the equipment; in particular it shall be declared if the same physical network port accommodates two or more types of network ports; — whether all network ports are deactivated before the equipment is placed on the market or put into service; — whether there are ports relying on active wired connections for the intended use, and the procedure used for deactivating those ports; — the power consumption of the equipment in networked standby if all wired network ports are connected and all wireless network ports are activated; — guidance on how to activate and deactivate wireless network ports;		N/A
(4)	for each type of network port: — the period after which the power management function switches the equipment into networked standby; — the remotely initiated trigger that is used to reactivate the equipment; — the (maximum) performance specifications;		N/A

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	— the (maximum) power consumption of the equipment in networked standby into which the power management function will switch the equipment, if only that port is used for remote activation; — the communication protocol used by the equipment;		
(5)	test conditions for measurements: — ambient temperature; — test voltage in V and frequency in Hz; — total harmonic distortion of the electricity supply system; — description of the instrumentation, set-up and circuits used for electrical testing;		P
(6)	the equipment characteristics relevant for assessing conformity with the requirements set out in points 2(a), 2(b) and 2(c), as applicable, including the declared value of the time taken to automatically reach networked standby, standby mode or off mode, or another condition which does not exceed the applicable power consumption requirements for off mode or standby mode in minutes, rounded to the nearest minute.		P
(7)	If applicable, a technical justification shall be provided that the requirements set out in point 2(a), 2(b), 2(c) and 2(d) are inappropriate for the intended use of equipment. The need to maintain one or more network connections or to wait for a remotely initiated trigger is not considered a technical justification for exemption from the requirements set out in point 2(b) in the case of equipment that is not defined as networked equipment by the manufacturer. For the requirements set out in point 2(c), the technical justification shall, in particular, provide evidence on why a main function needs to remain always active. In addition, where applicable, the packaging shall mention explicitly that: (a) the equipment does not have a standby mode or other equivalent state in terms of energy efficiency requirements, power management function or the ability to deactivate wireless network connections mode; (b) the power consumption of the equipment is likely to be higher than other equipment models meeting these functional requirements.	Declared by manufacturer	P
(8)	the description of the equipment's main functions.	Declared by manufacturer	P

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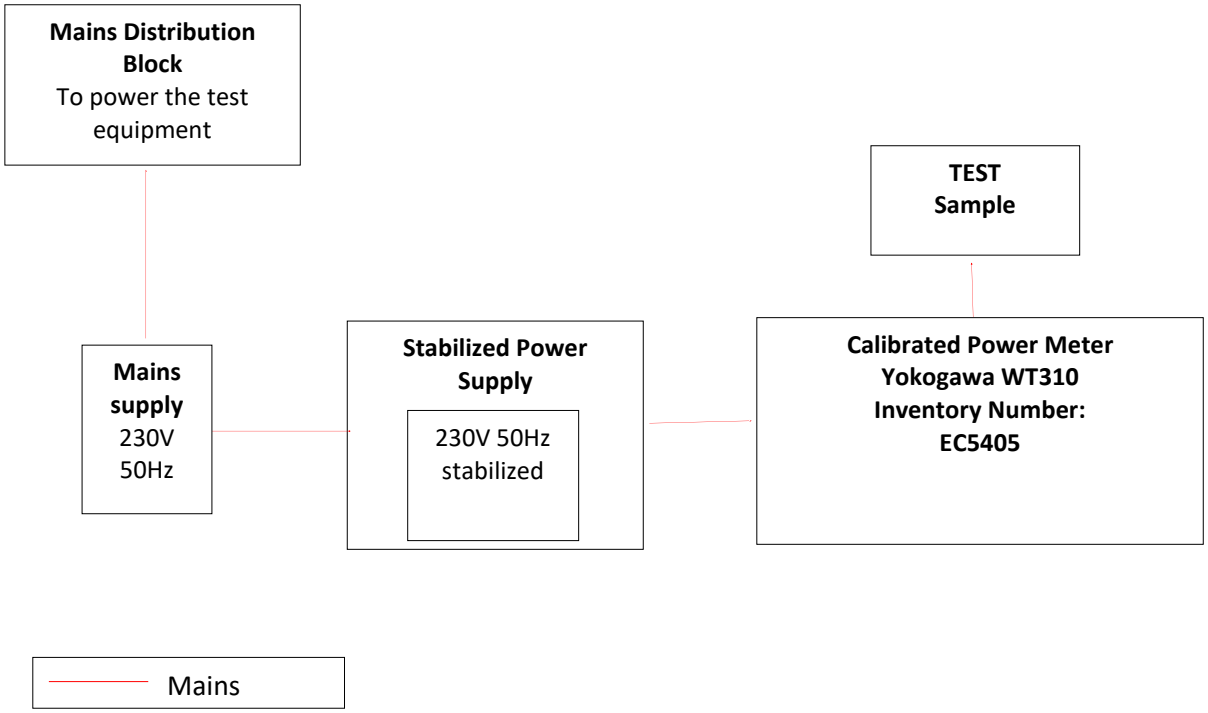
Testing circuit



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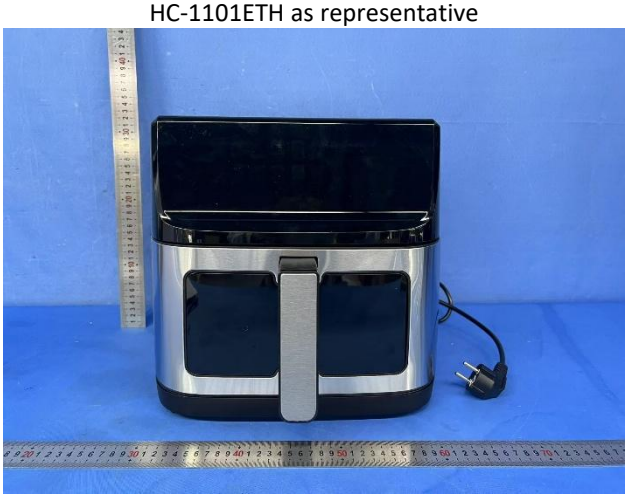
Photos of the appliance:

HC-8002ETH as representative

HC-1101ETH as representative



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HC-8003ETH as representative

HC-8003EATH as representative

The results only relate to the item tested

Prepared by:

Marvin Meng
Engineer

Approved by:

Jaki Pan
Reviewer

**********End**********