

TEST REPORT	
ErP- ecodesign requirement for standby and off mode, and networked standby, Electrical and electronic household and office equipment Implementing measure EC Regulation 1275/2008	
Report Reference No	AST2208201002
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Date of issue	Aug. 22, 2022
Total number of pages	Total 9 pages
Testing laboratory	
Name	Aerospace Testing Technology (Shenzhen) Co., Ltd.
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Testing location	Same as above
Applicant Name	
Zhongshan Saier Intelligent Technology Co., Ltd	
Address	Area A, Floor 4, NO.1 Factory Building, NO.77 Huanzhou North Road, Tanzhou Town, Zhongshan City, Guangdong, China.
Manufacturer name	
Same as applicant	
Address	Same as applicant
Factory name	
Same as applicant	
Address	Same as applicant
Test specification :	
Standard	(EC)No1275/2008, (EU)801/2013 Test Method: EN 50564:2011
Test procedure	EU-Directive
Non-standard test method	N/A
Test Report Form No	
EU 1275/2008-V01	
Test Report Form(s) Originator	AST
Master TRF	2022-08





Test item	
Test item description	projector
Brand Name.....	Sainyer
Model/Type reference.....	S6, cp350, m8-a, m8-g, z8pro, z9pro, z10, z20, z30, q9, q10, x1, x2, x5, x8, x9, s7, s8, s9, s10, s11, s12, s13, s10, C16
Ratings.....	Input: 110-240V~, 50-60Hz, 56W
Test item particulars:	
Declared Off mode power: (W).....	N/A
Declared Standby mode power: (W)	0.450W
Power management: (W).....	0.452W
Construction.....	<input type="checkbox"/> External power supply <input checked="" type="checkbox"/> Mains switch <input type="checkbox"/> Secondary function <input type="checkbox"/> Coffee machines
Networked products.....	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> HiNA equipment <input type="checkbox"/> HiNA functionality
Networked.....	<input type="checkbox"/> N/A <input checked="" type="checkbox"/> Wireless <input type="checkbox"/> Wired
Possible test case verdicts:	
- Test case does not apply to the test object.....	N (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.....	2022-08-02
Date (s) of performance of tests.....	2022-08-02 to 2022-08-22
Note:	
This report shall not be reproduced except in full without the written approval of the testing laboratory. The test results presented in this report relate only to the item tested. “(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. .	
Summary of testing:	
After test, The product meets the stage 1 of (EC)No1275/2008, (EU)801/2013	
General remarks:	
The product is a projector intended to be used for information technology equipment or audio/video equipment, all electronic components are mounted on PWB and housed in a plastic enclosure. Only the name and color of the model are different among all models, and the others are the same. There is no security impact. All tests were conducted under S6 to represent all models.	

Summary of testing

The product meets the stage 5 requirements of the implementation measure.

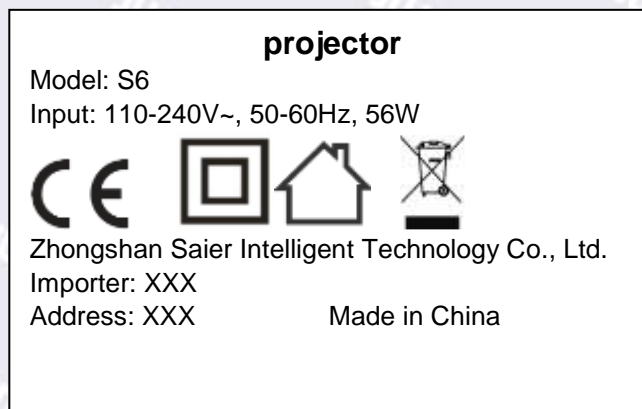
The product have Standby mode. It offer a power management that switches equipment after the shortest possible period of time appropriate into another condition which does not exceed the applicable power consumption requirements for standby mode automatically.

The external power supply had been approved separately by manufacture to comply with (EC) No 278/2009. All models are same except model name and appearance.

Remark:

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Start date	Jan.7, 2010	Jan.7, 2013	Jan.1, 2015	Jan.1, 2017	Jan.1, 2019
OFF – mode	√	√	No change	No change	No change
Standby mode	√	√	No change	No change	No change
Power mangement	N/A	√	No change	No change	No change
Coffee machines	N/A	N/A	√	No change	No change
Network Equipment	N/A	N/A	√	√	√

Copy of Marking Plate



There are reference labels. Final labels should be including the content of them.

Remark: The CE marking and WEEE symbol (if any) should be at least 5.0mm and 7.0mm respectively in height.

Clause	Requirement – Test	Result – Remark	Verdict
0	General		P
0.1	Ambient condition met requirement of: Ambient temperature (23 ±5°C) Airspeed ≤0.5m/s (EN 50564 cl.4.2)	Ambient: 24°C Airspeed: 0.1m/s	P
0.2	Where the product has an ambient light sensor that affects the power consumption, the test shall be carried out with controlled ambient light conditions. Where the illuminance levels are externally defined (in a test procedure or in the instructions for use), these values shall be used. Where no illuminance levels are stated or defined, reference illuminance levels of >300 lx and <10 lx shall be used. (EN 50564 cl.4.2)		N
0.3	Power source mets requirement of: Voltage 230V ±1% Frequency 50Hz ± 1% THD value<2% Ratio of peak value of test voltage to rms of 1.33 to 1.49 (EN 50564 cl.4.3.1, 4.3.2)	Voltage: 230.0V Frequency: 50Hz THD: max 2% Crest factor: 1.41	P
0.4	Power measurment uncertainty		P
	Measurements of power of 0,5W or greater shall be made with an uncertainty of less than or equal to 2% at the 95% confidence level. Measurements of power of less than 0,5W shall be made with an uncertainty of less than or equal to 0,01W at the 95% confidence level.		P
0.5	Test approach used		--
	- Sampling method Note: to be used when power is not stable (cyclic or unstable) or limited duration (EN 50564 cl.5.3.2)		N
	- Average reading method Note: to be used when power and mode is stable (EN 50564 cl.5.3.3)		P
	- -Average power approach		P
	- -Accumulated energy approach		N
	- Direct meter reading mothod Note: to be used when power and mode is stable, not for verifivation purposes (EN 50564 cl.5.3.4)		P
0.6	Test circuit		--
	- Test circuit acc. To Fig.1 is used		P

Clause	Requirement + Test	Result - Remark	Verdict
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	- Other test circuit is used		N
	<p>Fig.1 Test circuit</p>		

Annex II	Ecodesign requirements		P
1	OFF- mode (cl. 1.a & 2.a)		N
1.1	Measured power consumption in OFF mode:		N
1.1.1	Power consumption in any off mode function		N
	- Stage1 limit: $\leq 1.00W$		N
	- Stage 2 limit: $\leq 0.50W$		N
2	Standby mode (cl. 1.b & 2.b)		N
2.1	Measured power consumption in Standby mode:		P
2.1.1	Product only with reactivation or with reactivation and a mere indication:		P
	- Stage1 limit: $\leq 1.00W$		N
	- Stage 2 limit: $\leq 0.50W$	0.450W	P
2.1.2	Product with only information or status display, or only a combination of reactivation and information or status display:		N
	Stage1 limit: $\leq 2.00W$		N
	Stage 2 limit: $\leq 1.00W$		N
3	Availability of OFF mode and/or Standby mode (cl. 1.c & 2.c)		P
	Inappropriate for intended use to provide Standby and /or OFF-mode		N
	Standby-mode available		P
	OFF mode available		N
4	Power management (from Stage2) (cl. 2d)		P
	Power management shall be activated		P
	Switch to standby mode		P
	Switch to off mode		N
	Another condition meeting to Standby or Off-mode		N
	Inappropriate for intended use to provide Power management for Standby and /or OFF mode		N
5	Coffee machines (from stage 3) (1.1.2015) (cl. 6)		N

	Machines shall switch automatically to standby, off or similar mode		N
5.1	Drip filter coffee machines with insulated jug		N
	After last brewing cycle ≤ 2 min		N
	After completion of a descaling or self cleaning process ≤ 30 min		N
5.2	Drip filter coffee machines with non-insulated jug		N
	After last brewing cycle ≤ 40 min		N
	After completion of a descaling or self cleaning process ≤ 30 min		N
5.3	Other coffee machines		N
	After last brewing cycle ≤ 30 min		N
	After activation of heating element ≤ 30 min		N
	After activation of cup preheating function ≤ 60 min		N
	After completion of a descaling or self cleaning process ≤ 30 min		N
	Unless an alarm has been triggered requiring users intervention to prevent damage or accident		N
6	Networked equipment		P
6.1	From Stage 3 (1.1.2015) (cl.3)		P
6.1.1	Wireless network		P
	Wireless network connection does offer the user the possibility to deactivate the wireless network connection(s)		P
	Excluded from above when equipment relies only on a single wireless network connection for intended use and has no wired network connection		P
6.1.1.1	Power management for networked equipment		P
	Inappropriate for intended use to provide Power management or similar function		N
	May switches into standby, off or similar mode and does not exceed it's limits		P
	Power management function for all network ports		P
	Power management function or similar shall be actived unless all network ports are deactivated.		P
	Default time to networked standby ≤ 20 min		P
6.1.2	Network equipment with one or more standby modes shall comply with requirements for these standby mode(s) when: All network ports are deactivated		P
6.1.3	Network equipment other than HiNA equipment shall comply with power management requirement for all equipment other than networked equipment when: All network ports are deactivated		P
6.1.4	Power consumption in network standby		P

	HiNA equipment Limit: $\leq 12.00W$		N
	Other networked equipment Limited: $\leq 6.00W$		P
	The limits of this clause shall not apply to : printing equipment with a power supply rated power larger than 750W, large format printing equipment, tele-precense systems, desktop thin clients, workstations, mobile workstations, small-scale servers, computer servers		N
6.2	From Stage 4 (1.1.2017) (cl.4)		P
6.2.1	Network equipment with one or more standby modes shall comply with requirements for these standby mode(s) when: all wired network ports are disconnected and all wireless network ports are deactivated		P
6.2.2	Network equipment other than HiNA equipment shall comply with power management requirement for all equipment other than networked equipment when: all wired network ports are disconnected and all wireless network ports are deactivated		P
6.2.3	Power consumption in network standby		P
	HiNA equipment or equipment with HiNA functionality Limit: $\leq 8.00W$		N
	Other networked equipment Limit: $\leq 3.00W$		P
	The limits of this clause shall not apply to: large format printing equipment, desktop thin clients, workstations, mobile workstations, small-scale servers, computer servers		N
6.3	From Stage 5 (1.1.2019) (cl.5)		P
6.3.1	Power consumption in network stanby		P
	Other networked equipment Limit: $\leq 2.00W$		P
6.4	Product information for networked equipment (from Stage 3) (cl.7)		P
	On free access website: (a) For each standby and/or off mode and the condition providing networked standby into which the equipment is switched by the power management function or similar function: - the power consumption data in Watt rounded to the first decimal place, - the period of time after which the power management function, or a similar function, switches the equipment auto-matically into standby and/or off mode and/or the condition providing networked standby;		P
	On free access website and user manual: (b) the power consumption of the product in networked standby if all wired network ports are connected and all wireless network ports are activated; (c) guidance on how to activate adn deactivate wireless network ports.		P

TABLE 1		Power measurement			P
Voltage (230V+1%) (V):	230.0	Frequency (Hz):	50		
T ambient (°C):	24.1	THD (%):	0.61		
Air speed (m/s):	0.1	Illuminance (lux)	--		
Operation condition	Current (mA)	Real power (W)	Power factor	Remark	
Standby mode	44.79	0.450	0.049	--	
Networked standby	45.72	0.452	0.058	Without any signal input, product entered into off mode in 20 minutes	
Power management	45.55	0.461	0.055	--	
TABLE 2		Energy measurement/power calculation			N
Voltage (230V+1%) (V):	--	Frequency (Hz):	--		
T ambient (°C):	--	THD (%):	--		
Air speed (m/s):	--	Illuminance (lux)	--		
Operation condition	Energy (Wh)	Measurement time (min)	Calculated power (W)	Remark	
OFF mode	--	--	--	--	
Standby	--	--	--	--	
Supplementary information: N/A					

Photograph



Fig 1 Overview



Fig 2 Overview

=====END OF REPORT=====