



TEST REPORT

Implementing Directive 2009/125/EC

COMMISSION REGULATION (EC) No 1275/2008

Ecodesign requirement of electrical household and office equipment

Report reference No...... : PTC18120704102S-ER01
Compiled by (+ signature)..... : Amy Tang
Project Engineer
Approved by (+ signature)..... : Chris Du
Reviewer
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Testing laboratory

Name..... : Dongguan Precise Testing & Certification Corp.,Ltd.
Address..... : Building D, Baoding Technology Park, Guangming Road 2,
Guangming Community, Dongcheng District, Dongguan, Guangdong,
China

Applicant

Name..... : Microtech S.r.l
Address..... : Via Aldo Moro,9 20090 Buccinasco (Mi) Italy

Test specification

Standard..... : Commission Regulation (EC) No. 1275/2008;
EN50564: 2011 in excerpt
(Electrical and electronic household and office
equipment-Measurement of low power consumption)
Test Category : Entrusted Test
Non-standard test method..... : N/A

Test item Description..... : e-cube Mini PC
Trademark..... : N/A
Model and/or type reference..... : EC19ALB
Manufacturer..... : Same as applicant
Address..... : Same as applicant
Rating(s)..... : Input: 12Vdc, 4.0A



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

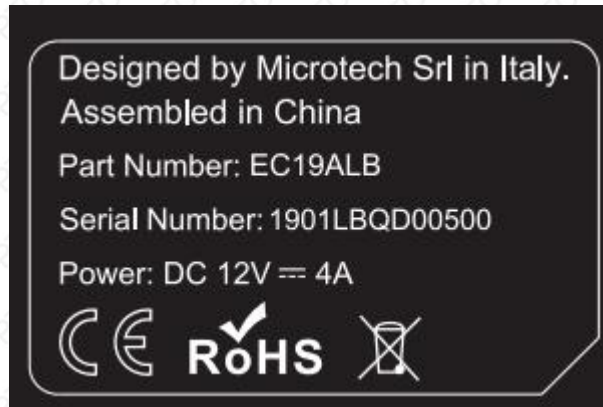
Date of receipt of test item..... : Dec. 25, 2018

Date(s) of performance of tests..... : Dec. 25 – Dec. 28, 2018

Attachments:

N/A

Copy of marking plate and summary of test results (information/comments):



General product information:

1. The submitted samples were found to comply with the above standard.
2. This test results relate only to the submit samples.

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Test and verification results:

Clause	Requirement – Test	Measuring result – Remark	Verdict
0.	General		P
0.1	Power source meets requirement of: Frequency 50Hz±1% THD value <2% ratio of peak value of test voltage to rms of 1.33 to 1.49	Frequency: 50Hz THD: max 1.44% Ratio: 1.43	P
0.2	Ambient condition meets requirement of: Ambient temperature (23±5)°C Airspeed≤0.5m/s	Ambient: 25.2°C Airspeed: 0.2m/s	P
0.3	Test approach used		
	- Stable mode		N/A
	- Average power approach		N/A
	- Average energy approach		P
0.4	Power measurement accuracy		P
	Measurements of power of 0.5 W 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 0.5 W shall be made with an uncertainty of less than or equal to 0,01W at the 95% confidence level. The power measurement instrument shall have a resolution of: - 0,01 W or better for power measurements of 10 W or less		P
0.5	Test circuit		
	- Test circuit acc. To Fig.1 is used		P
	- Other test circuit is used	See attachment	N/A

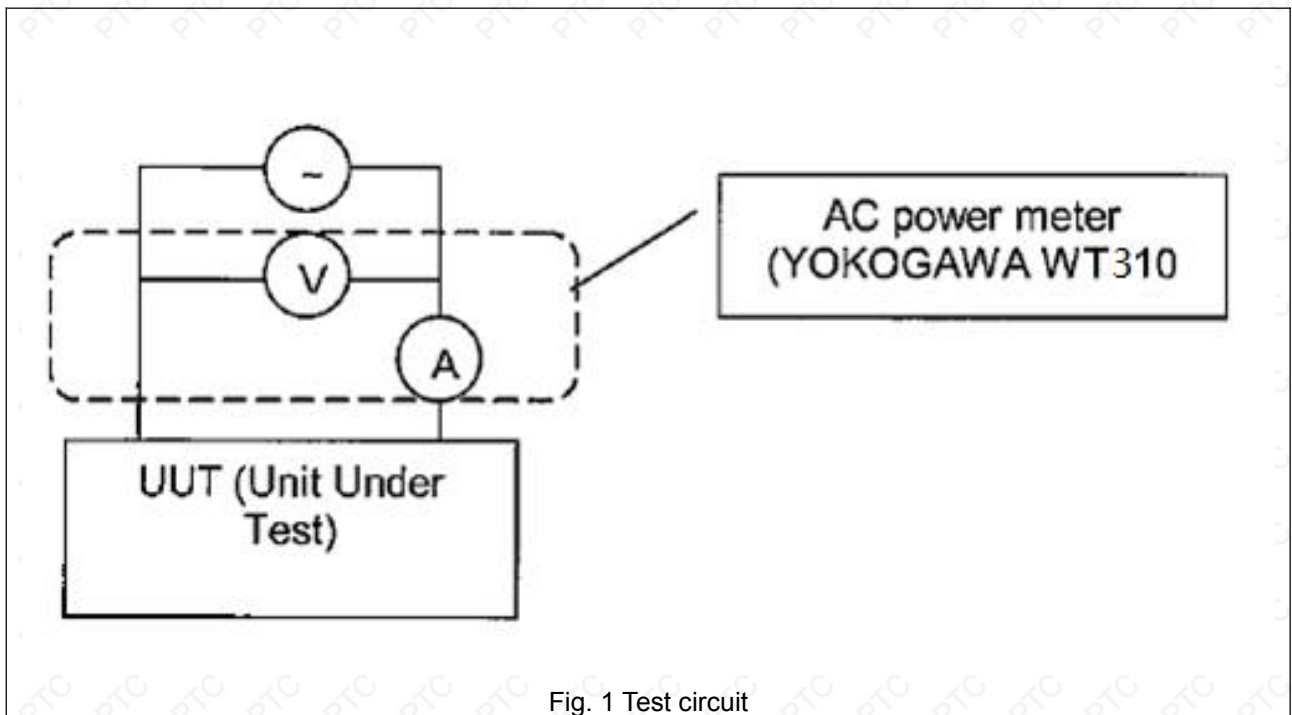


Fig. 1 Test circuit



Limited value according to EC Regulation 1275/2008 :

Stage I

Clause	Requirement – Test	Measuring result – Remark	Verdict
1.	Off-mode		P
1.1	Measured power consumption in Off mode:	See table 1	P
1.1.1	Power consumption in any off mode function		P
	Limit: $\leq 1.00W$	0.18W	P
2.	Standby mode		P
2.1	Measured power consumption in standby mode:	See table 2	P
2.1.1	Product only with reactivation or with reactivation and a mere indication:		P
	Limit: $\leq 1.00W$	0.30W	P
2.1.2	Product with only information or status display or only a combination of reactivation and information or status display:		N/A
	Limit: $\leq 2.00W$		N/A
3.	Availability of off mode and/or standby mode		P
	Inappropriate for intended use to provide Standby and or OFF-mode		N/A
	Standby-mode available		P
	Off-mode available		P



Stage II

Clause	Requirement – Test	Measuring result – Remark	Verdict
1.	Off-mode		P
1.1	Measured power consumption in Off mode:	See table 1	P
1.1.1	Power consumption in any off mode function		P
	Limit: $\leq 0.50W$	0.18W	P
2.	Standby mode		P
2.1	Measured power consumption in standby mode:	See table 2	P
2.1.1	Product only with reactivation or with reactivation and a mere indication:		P
	Limit: $\leq 0.50W$	0.30W	P
2.1.2	Product with only information or status display or only a combination of reactivation and information or status display:		N/A
	Limit: $\leq 1.00W$		N/A
3.	Availability of off mode and/or standby mode		P
	Inappropriate for intended use to provide Standby and or OFF-mode		N/A
	Standby-mode available		P
	Off-mode available		P
4.	Power management (only Stage 2)		N/A
	Switch to standby mode	t: min	N/A
	Switch to off mode	t: min	N/A
	Another condition meeting to Standby or Off mode:		N/A
	Inappropriate for intended use to provide Power Management for Standby and or OFF-mode		N/A



Table 1

TABLE 1: Off mode			P
	Voltage (230±1%)..... (V):	230VAC	--
	Temp..... (°C):	25.2	--
Operation condition	Power measured(W)	Remark	
OFF mode	0.18W	--	
Supplementary information			

Table 2

TABLE 2: Standby mode			P
	Voltage(230±1%).....(V):	230VAC	--
	Temp..... (°C):	25.2	--
Operation condition	Power measured(W)	Remark	
Standby mode	0.30W	--	
Supplementary information			

Photo documentation



Fig. 1



Fig. 2



Test equipment list

Equipment	Model/Type	Cal. Date	Valid Date	Uncertainty (%)
Digital Power Meter	WT310 (YOKOGAWA)	Jun. 01, 2018	May. 31, 2019	Voltage: 0.10% Current: 0.14% Power: 0.16%
Stopwatch	TA228	Sep. 20, 2018	Sep. 19, 2019	0.01s
Hygrothermograph	TA-138	Sep. 20, 2018	Sep. 19, 2019	Temp: U=0.4°C Humidity: 3%RH

----- End of test report -----