

TEST REPORT Erp - ecodesign requirements for off mode, standby mode, and networked standby energy consumption of electrical and electronic household and office equipment EU Commission Regulation (EU) 2023/826	
Report Reference No.....	AB25070113N
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Testing location.....	Same as above
Tested by (+ signature).....	John Huang
Approved by (+ signature).....	Darren Ding
Applicant's name.....	Casper Bilgisayar Sistemleri A.S.
Address.....	Fatih Sultan Mehmet Mahallesi, Balkan Caddesi, No:47 Umraniye, ISTANBUL, TURKEY ZIP:34770
Manufacturer's name.....	Casper Bilgisayar Sistemleri A.S.
Address.....	Fatih Sultan Mehmet Mahallesi, Balkan Caddesi, No:47 Umraniye, ISTANBUL, TURKEY ZIP:34770
Factory's name.....	Casper Bilgisayar Sistemleri A.S.
Address.....	Fatih Sultan Mehmet Mahallesi, Balkan Caddesi, No:47 Umraniye, ISTANBUL, TURKEY ZIP:34770
Test specification:	
Test Standard.....	COMMISSION REGULATION (EU) 2023/826 of 17 April 2023 laying down ecodesign requirements for off mode, standby mode, and networked standby energy consumption of electrical and electronic household and office equipment pursuant to Directive 2009/125/EC of the European Parliament and of the Council
Test procedure.....	EN 50564:2011, Electrical and electronic household and office equipment – Measurement of low power consumption
Non-standard test method.....	N/A
Conclusion.....	Compliant
Note: The test data was only valid for the test sample(s). This test report is prepared for the customer shown above and for the specific product described herein. It must not be duplicated or used in part without prior written consent from Aibo Standard Technology (Shenzhen) Co., Ltd.	

Test Object

Description.....: NevoPro P40
Brand Name.....: CASPER
Model and/or type reference.....: NevoPro P40 Series
Ratings.....: Input: 20V= 3.25A

Test item particulars

Declared off mode power: (W).....: 0.5W
Declared standby mode power: (W).....: 0.5W
Declared another condition mode power: (W): N/A
Declared Network standby power: (W).....: 0.5W
Construction.....: ☒ External power supply ☐ Mains switch
☐ Secondary function ☐ Coffee machines
Networked products.....: ☒ N/A ☐ HiNA equipment ☐ HiNA functionality
Networked.....: ☐ N/A ☒ Wireless ☒ Wired

Copy of marking plates:

NevoPro P40	  
Model: NevoPro P40 Series	
Input: 20V= 3.25 A (Charged by external power supply)	
Manufacturer: Casper Bilgisayar Sistemleri A.S	
Address: Fatih Sultan Mehmet Mahallesi, Balkan caddesi, No: 47Umraniye, ISTANBUL, TURKEY ZIP: 34770	
MADE IN TURKEY	

Remark:

1. The above marks are the minimum requirements required by the safety standard. For the final production, the additional marks which do not give rise to misunderstanding may be added.
2. Height of CE mark at least 5mm, height of WEEE mark at least 7mm, height of other marks at least 5mm, height of letters and numerals at least 2mm.
3. According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

Test case verdicts

Test case does not apply to the test object.....: N/A
Test item does meet the requirement.....: P(ass)
Test item does meet the requirement.....: F(ail)

Testing

Date of receipt of test item: 2025-07-29
Date(s) of performance of test.....: 2025-07-29 to 2025-08-29

General remarks

If any questions of the inspection report, please proposed within 15 days from receiving the report, deadline will not be accepted.
This test 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 appended table)" refers to a table appended to the report.
Throughout this report a point is used as the decimal separator.

Summary of testing

1. All tests were performed on model NevoPro P40 Series at the worst case and all test results comply with the requirements of COMMISSION REGULATION on cover page.
2. The testing laboratory fulfils the requirements of standard ISO/IEC 17025.
3. When determining the test conclusion, the Measurement Uncertainty of test has been considered.
Measurements of power of 0.50 Watt 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 0.50 Watt shall be made with an uncertainty of less than or equal to 0.01 Watt at the 95% confidence level.

General product information:

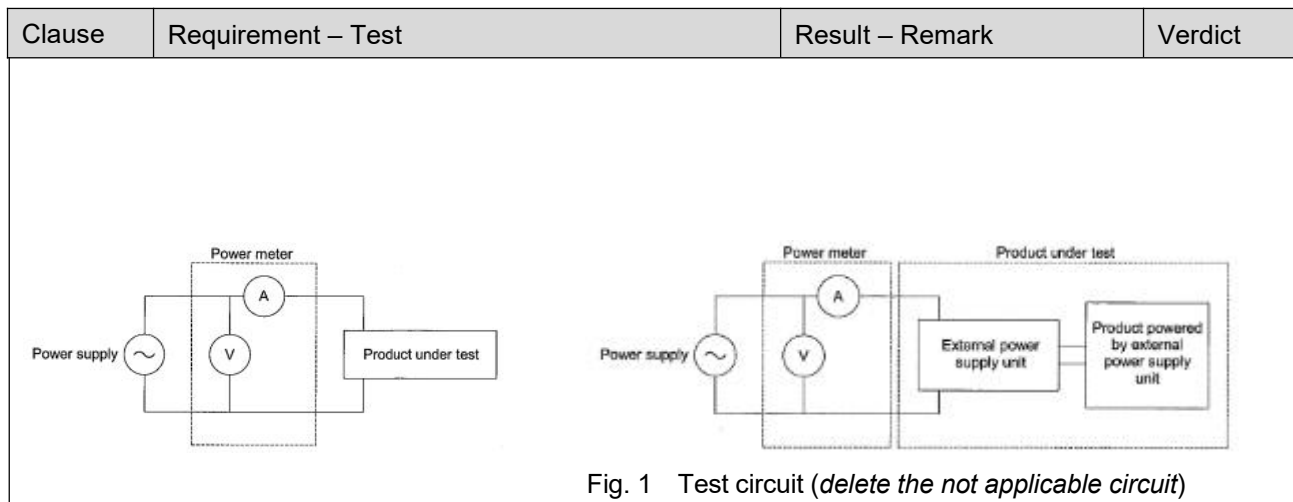
External power supply information:

Model	Manufacturer	Rating	Remark
GQ65PD02-ZG	Dongguan City Gangqi Electronic Co., Ltd	Input: 100-240V~ 50/60Hz, 2.0A Max output: 5.0V $\overline{\text{---}}$ 3.0A or 9.0V $\overline{\text{---}}$ 3.0A or 12.0V $\overline{\text{---}}$ 3.0A or 15.0V $\overline{\text{---}}$ 3.0A or 20.0V $\overline{\text{---}}$ 3.25A 65.0W Max	Energy efficiency VI

The product only meet the stage 1 requirement of the implementation measure (EU) 2023/826.

		Stage 1	Stage 2
Start Date		2025.05.09	2027.05.09
Off mode		$\leq 0,50W$	$\leq 0,30W$
Standby mode, without information or status display		$\leq 0,50W$	$\leq 0,50W$
Standby mode, with information or status display		$\leq 0,80W$ (tumble drier: $\leq 1,00W$)	$\leq 0,80W$ (tumble drier: $\leq 1,00W$)
Networked standby of HiNA equipment		$\leq 8,00W$	$\leq 7,00W$
Networked standby of networked equipment without HiNA functionality		$\leq 2,00W$	$\leq 2,00W$
Power management function			
- Power management for coffee machines	drip filter coffee machines + insulated jug	$\leq 5min$	$\leq 5min$
	drip filter coffee machines + non-insulated jug	$\leq 40min$	$\leq 40min$
	Non-drip filter coffee machines	$\leq 30min$	$\leq 30min$
- Power management for non-networked equipment other than coffee machines		$\leq 20min$	$\leq 20min$
- Power management for networked equipment		$\leq 20min$	$\leq 20min$

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: 24.2°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/A
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 1,34 to 1,49 (EN 50564 cl.4.3.1, 4.3.2)	Voltage: 230.0V Frequency: 50Hz THD(voltage): 1.38% Ratio value: 1.42	P
0.4	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/A
	- 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/A
	- Direct meter reading method Note: to be used when power and mode is stable, not for verification purposes (EN 50564 cl.5.3.4)		N/A
0.5	Power measurement uncertainty		P
	Power measurement uncertainty established (EN 50564 cl. 4.4.1)		P
0.6	Test circuit		
	- Test circuit acc. to Fig.1 is used		P
	- Other test circuit is used	See attachment	P



Annex III	Ecodesign requirements		P
1	Energy efficiency requirements		P
1.1	Off mode (cl. 1.a)		P
1.1.1	Measured power consumption in Off mode:	See table 1	P
	- Stage 1 limit: $\leq 0,50W$	0.42W	P
	- Stage 2 limit: $\leq 0,30W$		N/A
1.2	Standby mode (cl. 1.b)		P
1.2.1	Measured power consumption in Standby mode:		P
1.2.1.1	Product providing only a reactivation function, or providing only a reactivation function and an indication of enabled reactivation function:		P
	- Stage 1&2 limit: $\leq 0,50W$	0.43W	P
1.2.1.2	Product 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:	No such mode	N/A
	- Stage 1&2 limit: $\leq 0,80W$		N/A
	Exception: for household tumble driers covered by Commission Regulation (EU) No 932/2012: $\leq 1,00W$		N/A
1.2.1.3	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		P
1.3	Networked standby (cl. 1.c)		P
1.3.1	Measured power consumption in Networked standby:	Considered	P
1.3.1.1	HiNA equipment or equipment with HiNA functionality:	No considered as HiNA equipment	N/A

Clause	Requirement – Test	Result – Remark	Verdict
	Stage 1 limit: $\leq 8,00W$		N/A
	Stage 2 limit: $\leq 7,00W$		N/A
1.3.1.2	Networked equipment, other than HiNA equipment or equipment with HiNA functionality:	See table 1	P
	Stage 1&2 limit: $\leq 2,00W$	0.47W	P
1.3.1.3	The power consumption limits shall not apply to:		N/A
	— large format printing equipment		N/A
	— desktop thin clients, workstations, mobile workstations, and small-scale servers as defined in Regulation (EU) No 617/2013		N/A

2	Functional requirements		P
2.1	Availability of off mode and standby mode (cl. 2.a)		P
	— Off mode		P
	— Standby mode		P
	— Another low power consumption condition when the equipment is connected to the mains power source		N/A
	Inappropriate for intended use to provide one or more of the above conditions		N/A
2.2	Power management function for all equipment other than networked equipment (cl. 2.b)		N/A
2.2.1	Power management shall be activated (cl. 2.b.1)		N/A
	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, automatically into either of the following conditions:		N/A
	— to standby mode		N/A
	— to off mode		N/A
	— to another low power consumption condition when the equipment is connected to the mains power source		N/A
	Inappropriate for intended use to provide power management function		N/A
2.2.2	Coffee machines (cl. 2.b.2)		N/A
	power management function shall switch equipment, automatically into either of the: standby mode, off mode or another low power consumption condition		N/A
	— For drip filter coffee machines with insulated jug: ≤ 5 min	t: min/s	N/A
	— For drip filter coffee machines with non-insulated jug: ≤ 40 min	t: min/s	N/A

Clause	Requirement – Test	Result – Remark	Verdict
	— For coffee machines other than drip filter type: ≤ 30 min	t: min/s	N/A
2.2.3	Other equipment than 2.2.1, power management: ≤ 20 min	Less than 20 min.	N/A
2.2.4	The power management function described in point 2.2.1 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		N/A
2.2.5	The equipment may offer the user the option to deactivate the power management function		N/A
	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	☐ in the instruction manuals ☐ on the integrated displays	N/A
	This option shall not be part of the installation procedure of the equipment and shall require a separate user action on the equipment		N/A
2.3	Power management for networked equipment (cl. 2.c)		P
2.3.1	When equipment is not performing a main function, and another energy-related product is not dependent on its functions		P
	Power management function shall switch equipment, automatically into networked standby: ≤ 20 min		P
	Inappropriate for intended use to provide power management function		P
2.3.2	In networked standby, the power management function may switch equipment automatically into		P
	— Standby mode		P
	— Off mode		N/A
	— Another low power consumption condition		N/A
2.3.3	The power management function shall be available for all network ports of the networked equipment		N/A
2.3.4	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		N/A
	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
2.3.5	The equipment may offer the user the option to deactivate the power management function		N/A

Clause	Requirement – Test	Result – Remark	Verdict
	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 connected to the equipment	☐ in the instruction manuals ☐ on the integrated displays	N/A
	This option shall not be part of the installation procedure of the equipment and shall require a separate user action on the equipment.		N/A
2.3.6	Networked equipment other than HiNA equipment shall comply with the requirements set out in point 2.2 when all wired network ports are disconnected and all wireless network ports are deactivated		N/A
2.4	Possibility of deactivating wireless network connections (cl. 2.d)		N/A
	Networked equipment that can be connected to a wireless network shall offer the user the possibility to deactivate the wireless network connections		N/A
	<i>Exception: This requirement does not apply to equipment that relies on a single wireless network connection for intended use and have no wired network connection.</i>		N/A
2.5	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) (Power consumption in standby mode) or 1(c) (Power consumption in networked standby) (cl. 2.e)		N/A

3	Information requirements		P
3.1	The instruction manuals for end-users, and free access websites of manufacturers, importers or authorized representatives shall include the following information for all equipment, as applicable: (cl. 3.a)		P
	(1) for each off mode, standby mode or another low power consumption condition and networked standby into which the equipment is switched by the power management function or similar function:		P
	— 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		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

Clause	Requirement – Test	Result – Remark	Verdict
	(3) for equipment that needs an external power supply, but it is placed on the market without one, the manufacturer, importer or authorized representative shall provide information on the technical characteristics of the product model of the external power supply to be used with that equipment		P
	(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 websites of manufacturers, importers or authorized representatives		P
3.2	The technical documentation for the purposes of conformity assessment pursuant to Article 4 shall contain		N/A
	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.		N/A
	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.		N/A
	In addition, where applicable, the packaging shall mention explicitly that:		N/A
	(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;		N/A
	(b) the power consumption of the equipment is likely to be higher than other equipment models meeting these functional requirements.		N/A

Annex IV	Measurement methods and calculations		N/A
	The following general conditions shall apply when testing networked equipment:		N/A
	(a) To measure the energy consumption in standby mode of networked equipment that has such mode, all network ports of the unit shall be deactivated or disconnected, as applicable		N/A

Clause	Requirement – Test	Result – Remark	Verdict
	(b) If the equipment relies on active wired connection to one or more network ports for the intended use, manual deactivation of those network ports is allowed instead of wire disconnection		N/A
	(c) Procedure shall be used for measuring energy consumption in networked standby and for testing the power management function		N/A
	(d) For all types of household coffee machines, the measurements shall be performed after completion of the last brewing cycle, or, where applicable, after completion of a descaling process, self-cleaning process or any operation performed by the user		N/A
	unless an alarm has been triggered requiring user intervention to prevent possible damage or accident		N/A

Test result:

TABLE 1	Power measurement				P
Voltage (230V ±1%) (V):	230		Frequency (Hz):	50	
T _{ambient} (23 ±5)(°C):	24.2		THD (%):	1.38	
Air speed (m/s):	0.1		Illuminance (lux):	--	
Operation condition	Current (mA)	Real power (W)	Power factor	Remark	
Off mode	57.3	0.42	0.03	--	
Standby mode	57.5	0.43	0.03	--	
Networked standby mode	58.5	0.47	0.04	--	
Supplementary information:					

Test Equipment list:

Equipment ID No.	Equipment Description	Manufacturer	Type	Scale & Unit	Calibration Last Date	Calibration Due Date
AB-S-028	Digital Power Meter	YOKOGAWA	WT310E	600V, 20A	2025-01-20	2026-01-19
AB-S-010	Temperature and humidity meter	Hengyang city Anbiao instrument company	TH10R	-40-85° C, 0%-100%RH	2025-01-23	2026-01-22
AB-S-001	AC POWER SOURCE	MATH-MART	AC31020	0-300V, 168/84A,20KVA	2025-02-27	2026-02-26
AB-S-047	Digital anemometer	UNI-T	UT361	0-30m/s	2025-01-22	2026-01-21

Appendix 1: Photos

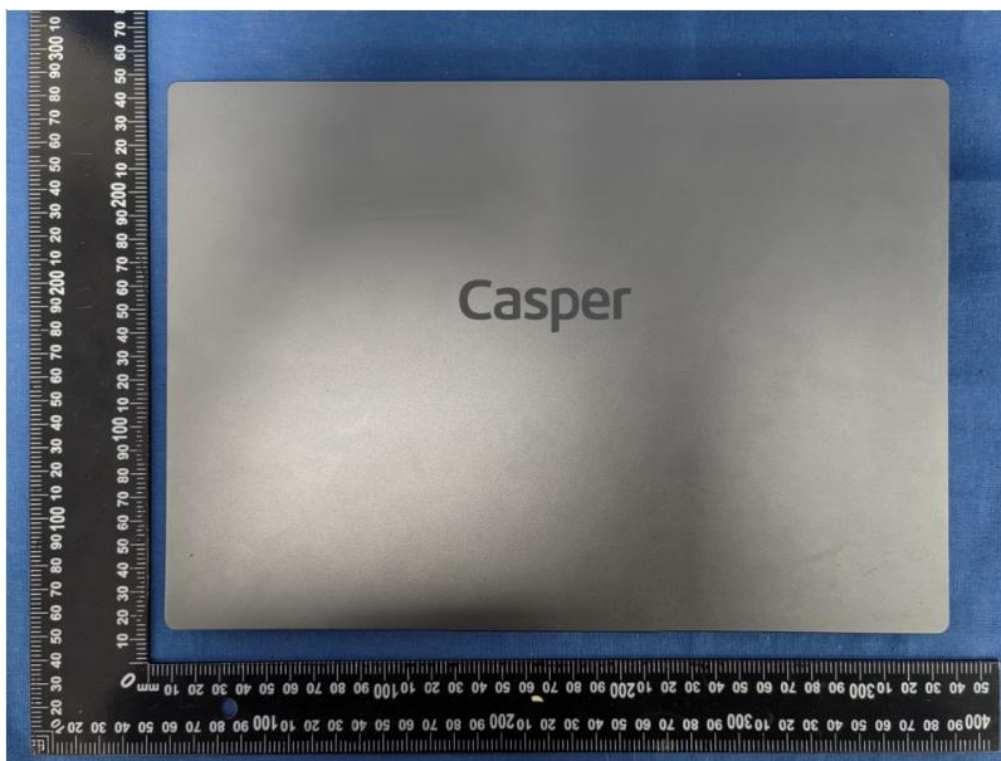


Photo 1 General view

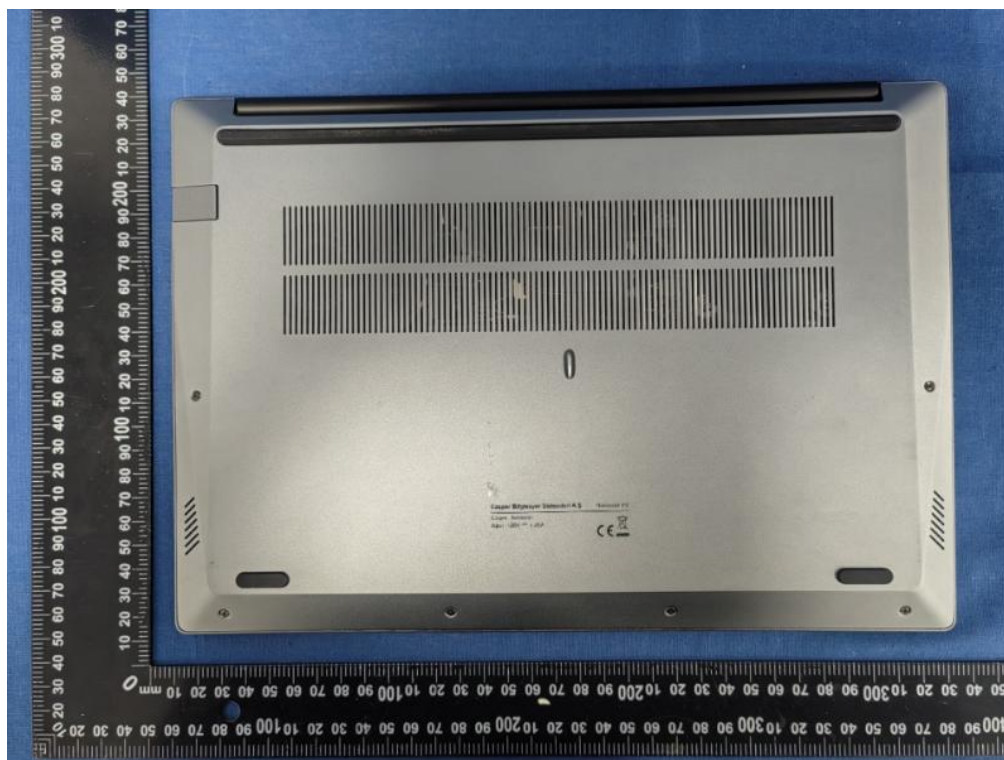


Photo 2 General view



Photo 3 Adapter view

*****End of Report*****