## Technical Documentation of (EU) No 617/2013

Product category  Manufacturer name, address  Acer Italy s.r.l, Via Lepetit, 40, 20020 Lainate (MI) Italy  Veriton M4640; Veriton M6640.  Year of manufacture  ETEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 July 2014)  ETEC allowance with capability adjustments when discrete graphics cards are disabled (from 1 July 2014)  ETEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  ETEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  ETEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  Whether all discrete graphics card are enabled during the test  Whether switchable graphics mode with UMA is driving the display during the test  ETEC of highest power-demanding configuration  Idle state power demand  43.28 Wa Sleep mode power demand	Product type	Desktop computer
Manufacturer name, address  Via Lepetit, 40, 20020 Lainate (MI) Italy  Product model number  Year of manufacture  ETEC allowance with capability adjustments when discrete graphics cards are disabled (from 1 July 2014)  ETEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 July 2014)  ETEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  ETEC allowance with capability adjustments when discrete graphics cards are disabled (from 1 January 2016)  ETEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  Whether all discrete graphics card are enabled during the test  Whether switchable graphics mode with UMA is driving the display during the test  ETEC of highest power-demanding configuration  Idle state power demand  Veriton M4640; Veriton M6640.  Vesual Seption M4640; Veriton M6640.  Vesual Seption M4640; Veriton M6640.  Vesual Seption M4640; Veriton M6640.  Vesual Seption M6640.  Vesual Seption M6640; Ves		D
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adjustments when discrete graphics cards are disabled (from 1 July 2014)  ETEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 July 2014)  ETEC allowance with capability adjustments when discrete graphics cards are disabled (from 1 January 2016)  ETEC allowance with capability adjustments when discrete graphics cards are disabled (from 1 January 2016)  ETEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  Whether all discrete graphics card are enabled during the test  Whether switchable graphics mode with UMA is driving the display during the test  ETEC of highest power-demanding configuration  Idle state power demand  43.28 Wa Sleep mode power demand		2013
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adjustments when discrete graphics cards are enabled (from 1 July 2014)  ETEC allowance with capability adjustments when discrete graphics cards are disabled (from 1 January 2016)  ETEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  Whether all discrete graphics card are enabled during the test  Whether switchable graphics mode with UMA is driving the display during the test  ETEC of highest power-demanding configuration  Idle state power demand  Sleep mode power demand  298 kWh/yea  203 kWh/yea  203 kWh/yea  201 kWh/yea  221 kWh/yea  322 kWh/yea  323 kWh/yea  324 kWh/yea  325 kWh/yea  326 kWh/yea  327 kWh/yea  328 kWh/yea  328 kWh/yea  329 kWh/yea  321 kWh/yea  322 kWh/yea  323 kWh/yea  324 kWh/yea  325 kWh/yea  326 kWh/yea  327 kWh/yea  328 kWh/yea  328 kWh/yea  328 kWh/yea  328 kWh/yea  328 kWh/yea  328 kWh/yea		
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E <sub>TEC</sub> allowance with capability adjustments when discrete graphics cards are disabled (from 1 January 2016)  E <sub>TEC</sub> allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  Whether all discrete graphics card are enabled during the test  Whether switchable graphics mode with UMA is driving the display during the test  E <sub>TEC</sub> of highest power-demanding configuration  Idle state power demand  Sleep mode power demand  203 kWh/yea  221 kWh/yea  221 kWh/yea  321 kWh/yea  3221 kWh/yea  323 kWh/yea  324 kWh/yea  325 kWh/yea  326 kWh/yea  327 kWh/yea  328 kWh/yea  328 kWh/yea  328 kWh/yea  328 kWh/yea  329 kWh/yea  320 kWh/yea  320 kWh/yea  321 kWh/yea  321 kWh/yea  321 kWh/yea  322 kWh/yea  323 kWh/yea  324 kWh/yea  325 kWh/yea  326 kWh/yea  327 kWh/yea  328 kWh/yea  328 kWh/yea  328 kWh/yea	•	290 KWIII/yeai
adjustments when discrete graphics cards are disabled (from 1 January 2016)  E_TEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  Whether all discrete graphics card are enabled during the test  Whether switchable graphics mode with UMA is driving the display during the test  E_TEC of highest power-demanding configuration  Idle state power demand  Sleep mode power demand  203 kWh/yea  221 kWh/yea  221 kWh/yea  322 kWh/yea  43.28 Wa  233 kWh/yea  43.28 Wa  43.28 Wa		
are disabled (from 1 January 2016)  E_TEC allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  Whether all discrete graphics card are enabled during the test  Whether switchable graphics mode with UMA is driving the display during the test  E_TEC of highest power-demanding configuration  Idle state power demand  Sleep mode power demand  221 kWh/yea  221 kWh/yea  488  498  498  498  498  498  498  49		203 kWh/year
E <sub>TEC</sub> allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016) Whether all discrete graphics card are enabled during the test Whether switchable graphics mode with UMA is driving the display during the test E <sub>TEC</sub> of highest power-demanding configuration Idle state power demand Sleep mode power demand  221 kWh/yea  221 kWh/yea  322 kWh/yea  43.28 Wa  221 kWh/yea  43.28 Wa	•	200 KWIII/yeai
adjustments when discrete graphics cards  are enabled (from 1 January 2016)  Whether all discrete graphics card are enabled during the test  Whether switchable graphics mode with UMA is driving the display during the test  E <sub>TEC</sub> of highest power-demanding configuration  Idle state power demand  Sleep mode power demand  221 kWh/yea  Yes  Yes  155.26 kWh/yea  155.26 kWh/yea  221 kWh/yea  Yes		
are enabled (from 1 January 2016)  Whether all discrete graphics card are enabled during the test  Whether switchable graphics mode with UMA is driving the display during the test  E <sub>TEC</sub> of highest power-demanding configuration  Idle state power demand  Sleep mode power demand  2.967 Wa	, ,	221 k\\\h/year
Whether all discrete graphics card are enabled during the test  Whether switchable graphics mode with UMA is driving the display during the test  E <sub>TEC</sub> of highest power-demanding configuration  Idle state power demand  Sleep mode power demand  Yes  No  155.26 kWh/yea  43.28 Wa  2.967 Wa	•	ZZ1 KWII/yeai
enabled during the test  Whether switchable graphics mode with  UMA is driving the display during the test  E <sub>TEC</sub> of highest power-demanding configuration  Idle state power demand  Sleep mode power demand  Yes  No  155.26 kWh/yea  43.28 Wa  2.967 Wa		
Whether switchable graphics mode with UMA is driving the display during the test  E <sub>TEC</sub> of highest power-demanding configuration Idle state power demand Sleep mode power demand  A3.28 Wa 2.967 Wa	• ,	Yes
UMA is driving the display during the test  E <sub>TEC</sub> of highest power-demanding configuration  Idle state power demand 43.28 Was Sleep mode power demand 2.967 Was	_	
E <sub>TEC</sub> of highest power-demanding configuration 155.26 kWh/year Idle state power demand 43.28 War Sleep mode power demand 2.967 War	• .	No
configuration  Idle state power demand  Sleep mode power demand  155.26 kWh/yea  43.28 Wa  2.967 Wa		
Idle state power demand 43.28 Wa Sleep mode power demand 2.967 Wa		155.26 kWh/year
Sleep mode power demand 2.967 Wa		43.28 Watt
, ,		2.967 Watt
Sleep mode with WOL enabled power	Sleep mode with WOL enabled power	0.704.W. #
demand 2.764 Wa		2.764 Watt
Off mode power demand 0.401 Wa	Off mode power demand	0.401 Watt
Off mode with WOL enabled power	Off mode with WOL enabled power	0.470 \\\-4
demand 0.478 Wa	demand	0.478 Watt
Maximum power demand Not applicable	Maximum power demand	Not applicable
Output Load 100%, Efficiency 82%	Internal newer cumply (IDS) efficiency at	Output Load 100% , Efficiency 82%
Internal power supply (IPS) efficiency at Output Load 50%, Efficiency 85%		Output Load 50% , Efficiency 85%
10 %, 20 %, 50 % and 100 % of rated Output Load 20%, Efficiency 82%		Output Load 20% , Efficiency 82%
Output Load 10%, Efficiency 78%	output power	•
External power supply's (EPS) average	External power supply's (EPS) average	·
active efficiency	active efficiency	INOT applicable

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Noise levels (the declared A-weighted	3.6 B
sound power level, L <sub>WAd</sub> ) of idle mode	0.0 2
Noise levels (the declared A-weighted	
sound power level, L <sub>WAd</sub> ) of "HDD random	3.6 B
seek" mode	
Minimum number of loading cycles that	Not applicable
the batteries can withstand	Tvot applicable
Configuration of memory	4~32 GB
Configuration of internal storage	1~4 piece
Configuration of discrete television tuner	0 piece
Configuration of discrete audio card	0 piece
Configuration of discrete graphics cards	0-1 piece
Configuration of discrete graphics cards category	G1
The external package of the notebook provides the information, "The battery in this product cannot be easily replaced by users themselves."	Not applicable
For products with an integrated display, the total content of mercury is	Not applicable
Measurement methodology for E <sub>TEC</sub>	COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers:  ANNEX II Ecodesign requirements and timetable:  1.1.1. E <sub>TEC</sub> formula.
Measurement methodology for idle mode	EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption: 5.2. Test setup; 5.3.5. Measuring short idle mode; 5.7. True RMS watt meter specification; 5.8. True RMS watt meter accuracy; Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.

Measurement methodology for sleep mode	EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption: 5.2. Test setup; 5.3.3. Measuring sleep mode; 5.4. Test conditions; 5.7. True RMS watt meter specification; 5.8. True RMS watt meter accuracy.
Measurement methodology for off mode	EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption: 5.2. Test setup; 5.3.2. Measuring off mode; 5.4. Test conditions; 5.7. True RMS watt meter specification; 5.8. True RMS watt meter accuracy.
Measurement methodology for IPS efficiency	Not applicable
Measurement methodology for EPS efficiency	EN 50563:2011 External a.c.—d.c. and a.c.—a.c. power supplies — Determination of no-load power and average efficiency of active modes.

Measurement methodology for noise level	ECMA-109 2nd edition (December 1987) Declared Noise Emission Values of Computer and Business Equipment: 4. Determination of the declared noise emission values. ECMA-74 11th edition (December 2010) Measurement of Airborne Noise emitted by Information Technology and Telecommunications Equipment: 5. Installation and operating instructions; 6. Method for determination of sound power levels of equipment in reverberation test rooms; 7. Method for determination of sound power levels of equipment under essentially free-field conditions over a reflecting plane; Annex C.15 Equipment category: personal computers and workstations.
Measurement methodology for battery loading cycles	Not applicable
Sequence of steps for achieving a stable condition with respect to power demand	EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption: 5.2. Test setup; 5.3.2. Measuring off mode; 5.3.3. Measuring sleep mode; 5.3.5. Measuring short idle mode.
Description of how sleep mode was selected or programmed	EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption: 5.2. Test setup; 5.3.3. Measuring sleep mode.
Description of how off mode was selected or programmed	EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption: 5.2. Test setup; 5.3.2. Measuring off mode.

Sequence of events required to reach the mode where the equipment automatically changes to sleep mode	ENERGY STAR <sup>®</sup> Program Requirements Product Specification for Computers, Eligibility Criteria Version 6.0, Rev. Oct-2013:  1.D.4 Sleep Mode.
Sequence of events required to reach the mode where the equipment automatically changes to off mode	Not applicable
The duration of idle state condition before the computer automatically reaches sleep mode, or another condition which does not exceed the applicable power demand requirements for sleep mode	30 minutes
The length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power demand requirement than sleep mode	30 minutes
The length of time before the display sleep mode is set to activate after user inactivity	10 minutes
User information on the energy-saving potential of power management functionality	http://www.energystar.gov/index.cfm?c=p ower mgt.pr power mgt users
User information on how to enable the power management functionality	http://www.energystar.gov/index.cfm?c=p ower_mgt.pr_power_mgt_users
Test parameter for ambient temperature	25 ℃
Test parameter for test voltage	230 V
Test parameter for frequency  Test parameter for total harmonic	50 Hz
Test parameter for total harmonic distortion of the electricity supply system	3 %
Test parameter for information and	
documentation on the instrumentation, set-up and circuits used for electrical	Digital Power Meter- Yokogawa WT210 Programmable AC Soure- Chroma 61603
testing	