

# Technical Documentation of (EU) No 617/2013

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| Product type   | Desktop computer  |                |
| Product category   | C   | D              |
| Manufacturer name, address   | Acer Italy s.r.l,<br>Via Lepetit, 40, 20020 Lainate (MI) Italy  |                |
| Product model number   | Aspire XC-115   |                |
| Year of manufacture  | 2014  |                |
| E <sub>TEC</sub> allowance with capability adjustments when discrete graphics cards are disabled (from 1 July 2014)    | 188 kWh/year  | 223 kWh/year   |
| E <sub>TEC</sub> allowance with capability adjustments when discrete graphics cards are enabled (from 1 July 2014)     | 222 kWh/year  | 257 kWh/year   |
| E <sub>TEC</sub> allowance with capability adjustments when discrete graphics cards are disabled (from 1 January 2016) | 134 kWh/year  | 162 kWh/year   |
| E <sub>TEC</sub> allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)  | 152 kWh/year  | 180 kWh/year   |
| Whether all discrete graphics card are enabled during the test   | Yes   | Yes            |
| Whether switchable graphics mode with UMA is driving the display during the test                                       | Yes   | Yes            |
| E <sub>TEC</sub> of highest power-demanding configuration  | 86.292 kWh/year   | 87 kWh/year    |
| Idle state power demand  | 24.15 Watt  | 24.33 Watt     |
| Sleep mode power demand  | 0.932 Watt  | 1.16 Watt      |
| Sleep mode with WOL enabled power demand   | 0.932 Watt  | 1.16 Watt      |
| Off mode power demand  | 0.262 Watt  | 0.262 Watt     |
| Off mode with WOL enabled power demand   | 0.596 Watt  | 0.598 Watt     |
| Maximum power demand   | Not applicable  | Not applicable |
| Internal power supply (IPS) efficiency at 10 %, 20 %, 50 % and 100 % of rated output power                             | Output Load 100% , Efficiency 88.53%<br>Output Load 50% , Efficiency 86.43%<br>Output Load 20% , Efficiency 87.73%<br>Output Load 10% , Efficiency 85.01% |                |
| External power supply's (EPS) average active efficiency  | Not applicable  | Not applicable |
| Noise levels (the declared A-weighted sound power level, L <sub>WAd</sub> ) of idle mode                               | 3.7 B   | 3.7 B          |

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| Noise levels (the declared A-weighted sound power level, $L_{WAd}$ ) of "HDD random seek" mode | 3.7 B  | 3.7 B          |
| Minimum number of loading cycles that the batteries can withstand                              | Not applicable   | Not applicable |
| Configuration of memory  | 2GB  | 4~16GB         |
| Configuration of internal storage  | 1 piece  | 1 piece        |
| Configuration of discrete television tuner   | 0 piece  | 0 piece        |
| Configuration of discrete audio card   | 0 piece  | 0 piece        |
| Configuration of discrete graphics cards   | 1 piece  | 1 piece        |
| Configuration of discrete graphics cards category  | G1   | G1             |
| The battery in this product cannot be easily replaced by users themselves                      | Not applicable   | Not applicable |
| For products with an integrated display, the total content of mercury is                       | Not applicable   | Not applicable |
| Measurement methodology for $E_{TEC}$  | <p>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:</p> <p>ANNEX II Ecodesign requirements and timetable:</p> <p>1.1.1. <math>E_{TEC}</math> formula.</p>         |                |
| Measurement methodology for idle mode  | <p>EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption:</p> <p>5.2. Test setup;</p> <p>5.3.5. Measuring short idle mode;</p> <p>5.7. True RMS watt meter specification;</p> <p>5.8. True RMS watt meter accuracy;</p> <p>Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.</p> |                |

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| Measurement methodology for sleep mode     | <p>EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption:</p> <p>5.2. Test setup;</p> <p>5.3.3. Measuring sleep mode;</p> <p>5.4. Test conditions;</p> <p>5.7. True RMS watt meter specification;</p> <p>5.8. True RMS watt meter accuracy.</p> |
| Measurement methodology for off mode       | <p>EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption:</p> <p>5.2. Test setup;</p> <p>5.3.2. Measuring off mode;</p> <p>5.4. Test conditions;</p> <p>5.7. True RMS watt meter specification;</p> <p>5.8. True RMS watt meter accuracy.</p>   |
| Measurement methodology for IPS efficiency | Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  |
| Measurement methodology for EPS efficiency | Not applicable   |

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

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| Description of how off mode was selected or programmed  | EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption:<br>5.2. Test setup;<br>5.3.2. Measuring off mode.               |
| Sequence of events required to reach the mode where the equipment automatically changes to sleep mode   | ENERGY STAR® Program Requirements Product Specification for Computers, Eligibility Criteria Version 6.0, Rev. Oct-2013:<br>1.D.4 Sleep Mode.        |
| Sequence of events required to reach the mode where the equipment automatically changes to off mode   | Not applicable  |
| 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   | <a href="http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users">http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users</a> |
| User information on how to enable the power management functionality  | <a href="http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users">http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users</a> |
| Test parameter for ambient temperature  | 25 °C   |
| Test parameter for test voltage   | 230 V   |
| Test parameter for frequency  | 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 testing  | Digital Power Meter- Yokogawa WT210<br>Programmable AC Source- Chroma 61603   |