# Technical Documentation of (EU) No 617/2013

| Product type | Desktop computer | | |
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| Product category | B | C | D |
| Manufacturer name, address | Acer Italy s.r.l,<br>Via Lepetit, 40, 20020 Lainate (MI) Italy | | |
| Product model number | Aspire TC-100 | | |
| Year of manufacture | 2014 | | |
| $E_{TEC}$ allowance with capability adjustments when discrete graphics cards are disabled (from 1 July 2014) | 158 kWh/year | 188 kWh/year | 223 kWh/year |
| $E_{TEC}$ allowance with capability adjustments when discrete graphics cards are enabled (from 1 July 2014) | 192 kWh/year | 222 kWh/year | 257 kWh/year |
| $E_{TEC}$ allowance with capability adjustments when discrete graphics cards are disabled (from 1 January 2016) | 112 kWh/year | 134 kWh/year | 162 kWh/year |
| $E_{TEC}$ allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016) | 130 kWh/year | 152 kWh/year | 180 kWh/year |
| Whether all discrete graphics card are enabled during the test | Yes | Yes | Yes |
| Whether switchable graphics mode with UMA is driving the display during the test | Yes | Yes | Yes |
| $E_{TEC}$ of highest power-demanding configuration | 54.1538 kWh/year | 98.0844 kWh/year | 98.62008 kWh/year |
| Idle state power demand | 14.76 Watt | 27.43 Watt | 27.56 Watt |
| Sleep mode power demand | 2.039 Watt | 0.988 Watt | 1.171 Watt |
| Sleep mode with WOL enabled power demand | 2.039 Watt | 0.988 Watt | 1.171 Watt |
| Off mode power demand | 0.32 Watt | 0.319 Watt | 0.319 Watt |
| Off mode with WOL enabled power demand | 1.35 Watt | 0.643 Watt | 0.645 Watt |
| Maximum power demand | Not applicable | 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 | Not applicable |
| Noise levels (the declared A-weighted sound power level, $L_{WAd}$) of idle mode | 3.75 B | 3.75 B | 3.75 B |
| Noise levels (the declared A-weighted sound power level, $L_{WAd}$) of "HDD random seek" mode | 3.75 B | 3.75 B | 3.75 B |
| Minimum number of loading cycles that the batteries can withstand | Not applicable | Not applicable | Not applicable |

| Configuration of memory | 2G | 2G | 4~16GB |
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| Configuration of internal storage | 1 piece | 1 piece | 1 piece |
| Configuration of discrete television tuner | 0 piece | 0 piece | 0 piece |
| Configuration of discrete audio card | 0 piece | 0 piece | 0 piece |
| Configuration of discrete graphics cards | 1 piece | 1 piece | 1 piece |
| Configuration of discrete graphics cards category | G1 | G1 | G1 |
| The battery in this product cannot be easily replaced by users themselves | Not applicable | Not applicable | Not applicable |
| For products with an integrated display, the total content of mercury is | Not applicable | Not applicable | Not applicable |
| Measurement methodology for $E_{TEC}$ | 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. $E_{TEC}$ 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 | 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 | ECMA-109 2nd edition (December 1987) Declared Noise Emission Values of Computer and Business Equipment: 4. Determination of the declared noise emission values.<br><br>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: personalcompute rs 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® 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 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 |

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| 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=power_mgt.pr_power_mgt_users |
| User information on how to enable the power management functionality | http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users |
| Test parameter for ambient temperature | 25 ℃ |
| 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 Soure- Chroma 61603 |