Technical Documentation of (EU) No 617/2013

| Product type | Notebook | computer |
|--|---|--------------------|
| Product category | А | В |
| Manufacturer name, address | Acer Italy s.r.l, | |
| | Via Lepetit, 40, 20020 Lainate (MI) Italy | |
| Product model number | TravelMate P277 | TravelMate P277G |
| Year of manufacture | 20 | 15 |
| E _{TEC} allowance with capability | | |
| adjustments when discrete graphics cards | 39.4 kWh/year | 54.8 kWh/year |
| are disabled (from 1 July 2014) | | |
| E _{TEC} allowance with capability | | |
| adjustments when discrete graphics cards | Not applicable | 80.8 kWh/year |
| are enabled (from 1 July 2014) | | |
| E _{TEC} allowance with capability | | |
| adjustments when discrete graphics cards | 30.4 kWh/year | 44.8 kWh/year |
| are disabled (from 1 January 2016) | | |
| E _{TEC} allowance with capability | | |
| adjustments when discrete graphics cards | Not applicable | 70.8 kWh/year |
| are enabled (from 1 January 2016) | | |
| Whether all discrete graphics card are | Not applicable | No |
| enabled during the test | Not applicable | INO |
| Whether switchable graphics mode with | Niet enelleele | V |
| UMA is driving the display during the test | Not applicable | Yes |
| E _{TEC} of highest power-demanding | 27 29 k\Mb/yoor | 20.77 k\\/b/\/.com |
| configuration | 27.38 kWh/year | 38.77 kWh/year |
| Idle state power demand | 9.49 Watt | 13.79 Watt |
| Sleep mode power demand | 0.44 Watt | 0.51 Watt |
| Sleep mode with WOL enabled power | 0.44 Watt | 0.55 Watt |
| demand | 0.44 vvali | 0.55 Wall |
| Off mode power demand | 0.19 Watt | 0.23 Watt |
| Off mode with WOL enabled power | 0.39 Watt | 0.39 Watt |
| demand | 0.00 *** | 0.00 vvatt |
| Maximum power demand | Not applicable | Not applicable |
| Internal power supply (IPS) efficiency at | | |
| 10 %, 20 %, 50 % and 100 % of rated | Not applicable | Not applicable |
| output power | | |
| External power supply's (EPS) average | 88.00% | 87.00% |
| active efficiency | | |
| Noise levels (the declared A-weighted | 2.94 B | 2.94 B |
| sound power level, L _{WAd}) of idle mode | | |
| Noise levels (the declared A-weighted | | |
| sound power level, L _{WAd}) of "HDD random | 3.06 B | 3.06 B |
| seek" mode | | |

| Minimum number of loading cycles that | 400 cycles | 400 cycles |
|---|---|---|
| the batteries can withstand | - | - |
| Configuration of memory | 2~16GB | 2~16GB |
| Configuration of internal storage | 1 piece | 1~2 pieces |
| Configuration of discrete television tuner | 0 piece | 0 piece |
| Configuration of discrete audio card | 0 piece | 0 piece |
| Configuration of discrete graphics cards | 0 piece | 1 piece |
| Configuration of discrete graphics cards category | Not applicable | G1 |
| The external package of the notebook provides the information, "The battery in this product cannot be easily replaced by users themselves." | Yes | Yes |
| For products with an integrated display, the total content of mercury is | 0 mg | 0 mg |
| Measurement methodology for E _{TEC} | COMMISSION REGULATI 26 June 2013 implementin the European Parliament a regard to ecodesign requir computer servers: ANNEX II Ecodesign requir 1.3.1. E _{TEC} formula. | g Directive 2009/125/EC of and of the Council with ements for computers and |
| Measurement methodology for idle mode | EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption: 5.2. Test setup; 5.3.4. Measuring long 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 2 nd edition (December 1987) Declared Noise Emission Values of Computer and Business Equipment: 4. Determination of the declared noise emission values. ECMA-74 11 th 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 | EN 61960:2011 Secondary cells and batteries containing alkaline or other non-acid electrolytes — Secondary lithium cells and batteries for portable applications: 7.6.1 General; 7.6.3 Endurance in cycles (accelerated test procedure). |
|---|--|
| 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; 5.3.4. Measuring long 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 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=power_mgt.p r_power_mgt_users |
| User information on how to enable the power management functionality | http://www.energystar.gov/index.cfm?c=power_mgt.p r_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 | 2 % |
| distortion of the electricity supply system | 2 70 |
| Test parameter for information and | |
| documentation on the instrumentation, | AC power source: Extech 6910; |
| set-up and circuits used for electrical | Power meter: Chroma 66200 |
| testing | |