

# Technical Documentation of (EU) No 617/2013

Product type	Desktop computer	
Product category	C	D
Manufacturer name, address	Acer Italy s.r.l, Via Lepetit, 40, 20020 Lainate (MI) Italy	
Product model number	Aspire TC-380 C	Aspire TC-380 D
Year of manufacture	2018	
E <sub>TEC</sub> allowance with capability adjustments when discrete graphics cards are disabled (from 1 January 2016)	159 kWh/year	235 kWh/year
E <sub>TEC</sub> allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)	197 kWh/year	273 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	No	No
E <sub>TEC</sub> of highest power-demanding configuration	170.88 kWh/year	171.27 kWh/year
Idle state power demand	48.03 Watt	48.04 Watt
Sleep mode power demand	1.16 Watt	1.97 Watt
Sleep mode with WOL enabled power demand	1.16 Watt	1.97 Watt
Off mode power demand	0.43 Watt	0.43 Watt
Off mode with WOL enabled power demand	0.43 Watt	0.43 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 82.862% Output Load 50% , Efficiency 85.689% Output Load 20% , Efficiency 83.142% Output Load 10% , Efficiency 77.007%	
External power supply's (EPS) average active efficiency	Not applicable	Not applicable
Noise levels (the declared A-weighted sound power level, L <sub>WA(d)</sub> ) of idle mode	3.50 B	3.50 B
Noise levels (the declared A-weighted sound power level, L <sub>WA(d)</sub> ) of "HDD random seek" mode	3.50 B	3.50 B

Minimum number of loading cycles that the batteries can withstand	Not applicable	Not applicable
Configuration of memory	2 G	4-64 G
Configuration of internal storage	1~5 piece	1~5 piece
Configuration of discrete television tuner	0 piece	0 piece
Configuration of discrete audio card	0 piece	0 piece
Configuration of discrete graphics cards	0~1 piece	0~1 piece
Configuration of discrete graphics cards category	G3	G3
The external package of the notebook provides the information, "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>	

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

<p>Measurement methodology for noise level</p>	<p>ECMA-109 2<sup>nd</sup> edition (December 1987) Declared Noise Emission Values of Computer and Business Equipment: 4. Determination of the declared noise emission values.</p> <p>ECMA-74 11<sup>th</sup> 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.</p>
<p>Measurement methodology for battery loading cycles</p>	<p>Not applicable</p>
<p>Sequence of steps for achieving a stable condition with respect to power demand</p>	<p>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.</p>
<p>Description of how sleep mode was selected or programmed</p>	<p>EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption: 5.2. Test setup; 5.3.3. Measuring sleep mode.</p>

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	<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 Programmable AC Source- Chroma 61603
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