Technical Documentation of (EU) No 617/2013

Product type	Desktop	computer
Product category	С	D
Manufacturer name, address	Acer Italy s.r.l,	
	Via Lepetit, 40, 20020 Lainate (MI) Italy	
Product model number	Aspire TC-220 C	Aspire TC-220 D
Year of manufacture	20	15
E _{TEC} allowance with capability		
adjustments when discrete graphics cards	188 kWh/year	223 kWh/year
are disabled (from 1 July 2014)		
E _{TEC} allowance with capability		
adjustments when discrete graphics cards	222 kWh/year	257 kWh/year
are enabled (from 1 July 2014)		
E _{TEC} allowance with capability		
adjustments when discrete graphics cards	134 kWh/year	162 kWh/year
are disabled (from 1 January 2016)		
E _{TEC} allowance with capability		
adjustments when discrete graphics cards	152 kWh/year	170 kWh/year
are enabled (from 1 January 2016)		
Whether all discrete graphics card are	Yes	Yes
enabled during the test	1 00	100
Whether switchable graphics mode with	No	No
UMA is driving the display during the test	140	140
E _{TEC} of highest power-demanding	148.311 kWh/year	154.182 kWh/year
configuration	140.511 KVVII/year	154. 162 KVVII/yeai
Idle state power demand	41.61 Watt	43.24 Watt
Sleep mode power demand	1.822 Watt	2.089 Watt
Sleep mode with WOL enabled power	1.802 Watt	2.078 Watt
demand		
Off mode power demand	0.355 Watt	0.366 Watt
Off mode with WOL enabled power	0.357 Watt	0.365 Watt
demand		
Maximum power demand	Not applicable	Not applicable
Internal power supply (IPS) efficiency at	Output Load 100% , Efficiency 88.53%	
	Output Load 50% , Efficiency 86.43%	
10 %, 20 %, 50 % and 100 % of rated	Output Load 20% , Efficiency 87.73%	
output power	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 _{WAd}) of idle mode	3.8 B	3.8 B
Total Potto: 10 tot, LWAQ) of Idio filodo	<u> </u>	

Noise levels (the declared A-weighted		
sound power level, L _{WAd}) of "HDD random	4.0 B	4.0 B
seek" mode		
Minimum number of loading cycles that	Not oppliedble	Not applicable
the batteries can withstand	Not applicable	
Configuration of memory	2GB	4~32GB
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	G1	G1
category	01	01
The external package of the notebook		
provides the information, "The battery in	N. (P. 11	
this product cannot be easily replaced by	Not applicable Not	Not applicable
users themselves."		
For products with an integrated display,		
the total content of mercury is	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	

Measurement methodology for noise level	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:	
Measurement methodology for battery loading cycles	personal computers and workstations. 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 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=po wer mgt.pr power mgt users
User information on how to enable the power management functionality	http://www.energystar.gov/index.cfm?c=po wer_mgt.pr_power_mgt_users
Test parameter for ambient temperature	25 °C
Test parameter for test voltage	230 V
Test parameter for frequency Test parameter for total harmonic distortion of the electricity supply system	50 Hz 3 %

Test parameter for information and	
documentation on the instrumentation,	Digital Power Meter- Yokogawa WT210
set-up and circuits used for electrical	Programmable AC Soure- Chroma 61603
testing	