Technical Documentation of (EU) No 617/2013

Product type	Notebook computer		
Product category	А	В	
Manufacturar name address	Acer Italy s.r.l,		
Manufacturer name, address	Via Lepetit, 40, 20020	20 Lainate (MI) Italy	
Product model number	Extensa 2509		
Year of manufacture	20	14	
E _{TEC} allowance with capability			
adjustments when discrete graphics cards	37.6 kWh/year	49.6 kWh/year	
are disabled (from 1 July 2014)			
E _{TEC} allowance with capability			
adjustments when discrete graphics cards	Not applicable	61.6 kWh/year	
are enabled (from 1 July 2014)			
E _{TEC} allowance with capability		37.6 kWh/year	
adjustments when discrete graphics cards	28.6 kWh/year		
are disabled (from 1 January 2016)			
E _{TEC} allowance with capability		49.6 kWh/year	
adjustments when discrete graphics cards	Not applicable		
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	Not applicable	Yes	
UMA is driving the display during the test	тот аррпсаые	163	
E _{TEC} of highest power-demanding	17.25 kWh/year	16.71 kWh/year	
configuration	17.25 KVVII/year		
Idle state power demand	5.48 Watt	7.93 Watt	
Sleep mode power demand	0.74 Watt	0.54 Watt	
Sleep mode with WOL enabled power	0.7 Watt	0.54 Watt	
demand			
Off mode power demand	0.42 Watt	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Off mode with WOL enabled power	0.37 Watt	0.26 Watt	
Maximum power demand	Not applicable	Not applicable	
Internal power supply (IPS) efficiency at	Not applicable	Not applicable	
10 %, 20 %, 50 % and 100 % of rated			
output power			
External power supply's (EPS) average	86.45%	87.20%	
active efficiency			
Noise levels (the declared A-weighted	2.9 B	2.9 B	
sound power level, L _{WAd}) of idle mode			

Noise levels (the declared A-weighted		
sound power level, L _{WAd}) of "HDD random	2.9 B	2.9 B
seek" mode	2.0 2	2.0 5
Minimum number of loading cycles that		
the batteries can withstand	400 cycles	400 cycles
Configuration of memory	2~ 8 GB	2~ 8 GB
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	0 piece	1 piece
Configuration of discrete graphics cards	·	G1
category	Not applicable	
The battery in this product cannot be	N.I.	
easily replaced by users themselves	No	No
For products with an integrated display,	0	0
the total content of mercury is	0 mg	0 mg
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: 1.3.1. E _{TEC} formula.	
Measurement methodology for idle mode	EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption: 5.2. Test setup; 5.3.4. 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.

5.15. W.C.C. 1 51(55)(W.W. W.1210	testing
Power Meter YOKOGAWA WT210	documentation on the instrumentation, set-up and circuits used for electrical
AC Power Source EXTECH 6800 SERIES	Test parameter for information and
	distortion of the electricity supply system Test parameter for information and
3 %	Test parameter for total harmonic
50 Hz	Test parameter for frequency
230 V	Test parameter for test voltage
25 ℃	Test parameter for ambient temperature
http://www.energystar.gov/index.cfm?c=po ver_mgt.pr_power_mgt_users	User information on how to enable the power management functionality
http://www.energystar.gov/index.cfm?c=po ver mgt.pr power mgt users	User information on the energy-saving potential of power management functionality
0 minutes	The length of time before the display sleep mode is set to activate after user inactivity
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
lot applicable	Sequence of events required to reach the mode where the equipment automatically changes to off mode
ENERGY STAR [®] Program Requirements Product Specification for Computers, Eligibility Criteria Version 6.0, Rev. Oct-2013: .D.4 Sleep Mode.	Sequence of events required to reach the mode where the equipment automatically changes to sleep mode
EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption: 5.2. Test setup; 5.3.2. Measuring off mode.	Description of how off mode was selected or programmed
computers — Measurement of energ	Description of how off mode was selected