Technical Documentation of (EU) No 617/2013

Product type	Notebook	computer
Product category	A	В
	Acer Italy s.r.l,	
Manufacturer name, address	Via Lepetit, 40, 20020) Lainate (MI) Italy
Product model number		ate P455
Year of manufacture	20	14
E _{TEC} allowance with capability		
adjustments when discrete graphics cards	36 kWh/year	49.6 kWh/year
are disabled (from 1 July 2014)		
E _{TEC} allowance with capability		
adjustments when discrete graphics cards	Not applicable	69.6 kWh/year
are enabled (from 1 July 2014)		
E _{TEC} allowance with capability		
adjustments when discrete graphics cards	27 kWh/year	37.6 kWh/year
are disabled (from 1 January 2016)		
E _{TEC} allowance with capability		
adjustments when discrete graphics cards	Not applicable	57.6 kWh/year
are enabled (from 1 January 2016)		
Whether all discrete graphics card are	Not applicable	No
enabled during the test	пот арріїсаріе	NO
Whether switchable graphics mode with	Not applicable	Yes
UMA is driving the display during the test	Not applicable	163
E _{TEC} of highest power-demanding	13.83 kWh/year	14.32 kWh/year
configuration	10.00 KVVIII year	14.02 KVVII/year
Idle state power demand	4.7 Watt	4.9 Watt
Sleep mode power demand	0.33 Watt	0.36 Watt
Sleep mode with WOL enabled power	0.33 Watt	0.36 Watt
demand		
Off mode power demand	0.23 Watt	
Off mode with WOL enabled power	0.22 Watt	
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	87.20%	87.80%
active efficiency		
Noise levels (the declared A-weighted	2.7 B	2.7 B
sound power level, L _{WAd}) of idle mode		
Noise levels (the declared A-weighted		
sound power level, L _{WAd}) of "HDD random	2.8 B	2.8 B
seek" mode		

Minimum number of loading cycles that the batteries can withstand	400 cycles	400 cycles
Configuration of memory	2~16GB	2~ 16GB
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 category	Not applicable	G2
The battery in this product cannot be easily replaced by users themselves	No	No
For products with an integrated display, the total content of mercury is	0 mg	0 mg
Measurement methodology for E _{TEC}	COMMISSION REGULE 617/2013 of 26 June Directive 2009/125/E0 Parliament and of the to ecodesign requirer and computer servers ANNEX II Ecodesign timetable: 1.3.1. E _{TEC} formula.	2013 implementing C of the European Council with regard ments for computers S:
Measurement methodology for idle mode	EN 62623:2013 — Decomputers — Measur consumption: 5.2. Test setup; 5.3.4. Measuring long 5.7. True RMS watt restance to the setup of th	rement of energy g idle mode; meter specification; meter accuracy; re) ENERGY STAR®
Measurement methodology for sleep mode	EN 62623:2013 — Decomputers — Measur consumption: 5.2. Test setup; 5.3.3. Measuring sleets.4. Test conditions; 5.7. True RMS watt rest.8. True RMS watt rest.9.	rement of energy ep mode; meter specification;

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 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 ℃
Test parameter for ambient temperature Test parameter for test voltage	25 °C 230 V
Test parameter for test voltage	230 V 50 Hz
Test parameter for test voltage Test parameter for frequency	230 V
Test parameter for test voltage Test parameter for frequency Test parameter for total harmonic	230 V 50 Hz
Test parameter for test voltage Test parameter for frequency Test parameter for total harmonic distortion of the electricity supply system	230 V 50 Hz
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