Technical Documentation of (EU) No 617/2013

Entry No.	Product type	Desktop computer			
1	Product category	A	B	C	D
2	Manufacturer name, address	Acer Italy s.r.l, Viale delle Industrie 1/A, 20020 Arese (MI), Italy			
3	Product model number		VM4680G B VM6680G B	VM4680G C VM6680G C	VM4680G D VM6680G D
4	Year of manufacture	2021			
5	E_{TEC} allowance with capability adjustments when discrete graphics cards are disabled (from 1 January 2016)		249 kWh/year	271 kWh/year	285 kWh/year
6	E_{TEC} allowance with capability adjustments when discrete graphics cards are enabled (from 1 January 2016)		321 kWh/year	343 kWh/year	357 kWh/year
7	Whether all discrete graphics card are enabled during the test		Yes	Yes	Yes
8	Whether switchable graphics mode with UMA is driving the display during the test		No	No	No
9	E_{TEC} of highest power-demanding configuration		108.20 kWh/year	171.98 kWh/year	171.98 kWh/year
10	Idle state power demand		30.21 Watt	48.37 Watt	48.37 Watt
11	Sleep mode power demand		1.83 Watt	1.83 Watt	1.83 Watt
12	Sleep mode with WOL enabled power demand		1.83 Watt	1.83 Watt	1.83 Watt
13	Off mode power demand		0.32 Watt	0.35 Watt	0.35 Watt
14	Off mode with WOL enabled power demand		0.89 Watt	0.89 Watt	0.89 Watt
15	Maximum power demand		Not applicable	Not applicable	Not applicable
16	Internal power supply (IPS) efficiency at 10 %, 20 %, 50 % and 100 % of rated output power		10% - 88.21% 20% - 91.78% 50% - 91.59% 100% - 87.91%	Same as left	Same as left
17	External power supply's (EPS) average active efficiency		Not applicable	Not applicable	Not applicable
18	Noise levels (the declared A-weighted sound power level, L_{WAd}) of idle mode		3.50 B	Same as left	Same as left
19	Noise levels (the declared A-weighted sound power level, L_{WAd}) of "HDD random seek" mode		3.60 B	Same as left	Same as left
20	Minimum number of loading cycles that the batteries can withstand		Not applicable	Not applicable	Not applicable
21	Configuration of memory (unit: GB)		2 ~ 64	2 ~ 64	4 ~ 64

22	Configuration of internal storage (unit: piece)		1 ~ 4	1 ~ 4	1 ~ 4
23	Configuration of discrete television tuner (unit: piece)		0	0	0
24	Configuration of discrete audio card (unit: piece)		0	0	0
25	Configuration of discrete graphics cards (unit: piece)		0 ~1	0 ~1	0 ~1
26	Configuration of discrete graphics cards category		G5	G5	G5
27	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	Not applicable
28	For products with an integrated display, the total content of mercury is		Not applicable	Not applicable	Not applicable
29	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. ETEC formula.			
30	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.			
31	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.			
32	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.			
33	Measurement methodology for IPS efficiency	Not applicable			
34	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.			

35	Measurement methodology for noise level	ECMA-109 2nd edition (December 1987) Declared Noise Emission Values of Computer and Business Equipment: 4. Determination of the declared noise emission values. ECMA-74 11th 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.
36	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).
37	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.
38	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.
39	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.
40	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.
41	Sequence of events required to reach the mode where the equipment automatically changes to off mode	Not applicable
42	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
43	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
44	The length of time before the display sleep mode is set to activate after user inactivity	10 minutes

45	User information on the energy-saving potential of power management functionality	http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users
46	User information on how to enable the power management functionality	http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users
47	Test parameter for ambient temperature	25 ℃
48	Test parameter for test voltage	230 V
49	Test parameter for frequency	50 Hz
50	Test parameter for total harmonic distortion of the electricity supply system	3%
51	Test parameter for information and documentation on the instrumentation, set-up and circuits used for electrical testing	Chroma 6530 (Ac Source) YOKOGAWA WT210 (Digital Meter)