Technical Documentation of (EU) No 617/2013

Product type	Desktop computer		
Product category	В	С	D
Manufacturer name, address	Acer Italy s.r.l. Viale delle Industrie 1/A, 2	0020 Arese (MI), Italy	
Product model number	VM4670 B; VS4670 B; VX4670 B.	VM4670 C; VS4670 C; VX4670 C.	VM4670 D; VS4670 D; VX4670 D.
Year of manufacture		2020	
E _{TEC} allowance with capability			
adjustments when discrete graphics	174 kWh/year	196 kWh/year	210 kWh/year
cards are disabled (from 1 January 2016) E _{TEC} allowance with capability			
adjustments when discrete graphics	246 kWh/year	268 kWh/year	282 kWh/year
cards are enabled (from 1 January 2016) Whether all discrete graphics card are			
enabled during the test	Yes	Yes	Yes
Whether switchable graphics mode with			
UMA is driving the display during the test	No	No	No
E _{TEC} of highest power-demanding		457.05.114/1./	457.05.1341.7
configuration	105.29 kWh/year	157.05 kWh/year	157.05 kWh/year
Idle state power demand	29.46 Watt	44.22 Watt	44.22 Watt
Sleep mode power demand	0.94 Watt	0.98 Watt	0.98 Watt
Sleep mode with WOL enabled power	0.96 Watt	1.07 Watt	1.07 Watt
demand	0.20 \/-4	0.20.14/-#	0.20.1/-#
Off mode power demand	0.32 Watt	0.32 Watt	0.32 Watt
Off mode with WOL enabled power demand	0.34 Watt	0.34 Watt	0.34 Watt
Maximum power demand	Not applicable	Not applicable	Not applicable
Internal power supply (IPS) efficiency at	10% - 90.30%	10% - 90.30%	10% - 90.30%
10 %, 20 %, 50 % and 100 % of rated	20% - 92.46%	20% - 92.46%	20% - 92.46%
output power	50% - 92.94%	50% - 92.94%	50% - 92.94%
output power	100% - 90.66%	100% - 90.66%	100% - 90.66%
External power supply's (EPS) average active efficiency	Not applicable	Not applicable	Not applicable
Noise levels (the declared A-weighted	2.90 B	2.90 B	2.90 B
sound power level, L _{WAd}) of idle mode			
Noise levels (the declared A-weighted	2.40 D	2.40 D	2.40 D
sound power level, L _{WAd}) of "HDD random	3.10 B	3.10 B	3.10 B
seek" mode Minimum number of loading cycles that			
the batteries can withstand	Not applicable	Not applicable	Not applicable
Configuration of memory (GB)	2~64	2~64	4~64
Configuration of internal storage (piece)	1	1	1
Configuration of discrete television tuner	_	_	^
(piece)	0	0	0
Configuration of discrete audio card (piece)	0	0	0
Configuration of discrete graphics cards (piece)	0 ~1	0 ~1	0 ~1

Configuration of discrete graphics cards category	G5	G5	G5
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
For products with an integrated display, the total content of mercury is	Not applicable	Not applicable	Not applicable
Measurement methodology for Ετες	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	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: personalcompute rs and workstations.
Measurement methodology for battery loading cycles	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	http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users
functionality	
User information on how to enable the	http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_mgt_users
power management functionality	Inttp://www.energystar.gov/index.cimr.c=power_ingt.pr_power_ingt_users
Test parameter for ambient temperature	25 ℃
Test parameter for test voltage	230 V
Test parameter for frequency	50 Hz
Test parameter for total harmonic	3 %
distortion of the electricity supply system	3 /6
Test parameter for information and	
documentation on the instrumentation,	AC source- Chroma 6530
set-up and circuits used for electrical	Digital meter- YOKOGAWA WT210
testing	