## Technical Documentation of (EU) No 617/2013

Product type	Desktop computer
Product category	D
Manufacturer name, address	Acer Italy s.r.l, Viale delle Industrie 1/A, 20020 Arese
indifferential for marrie, address	(MI), Italy
Product model number	Aspire TC-831
Year of manufacture	2019
E <sub>TEC</sub> allowance with capability	
adjustments when discrete graphics cards	179 kWh/year
are disabled (from 1 January 2016)	·
E <sub>TEC</sub> allowance with capability	
adjustments when discrete graphics cards	197 kWh/year
are enabled (from 1 January 2016)	
Whether all discrete graphics card are	V
enabled during the test	Yes
Whether switchable graphics mode with	N
UMA is driving the display during the test	No
E <sub>TEC</sub> of highest power-demanding	101.34 kWh/year
configuration	101.54 KWII/yeai
Idle state power demand	28.48 Watt
Sleep mode power demand	0.377 Watt
Sleep mode with WOL enabled power	0.377 Watt
demand	
Off mode power demand	0.287 Watt
Off mode with WOL enabled power	0.287 Watt
demand Maximum power demand	Not applicable
Internal power supply (IPS) efficiency at	Not applicable
10 %, 20 %, 50 % and 100 % of rated	Not applicable
output power	
External power supply's (EPS) average	89.01%
active efficiency	09.0176
Noise levels (the declared A-weighted	3.50 B
sound power level, L <sub>WAd</sub> ) of idle mode	0.00 B
Noise levels (the declared A-weighted	
sound power level, L <sub>WAd</sub> ) of "HDD random	3.50 B
seek" mode	
Minimum number of loading cycles that	Not applicable
the batteries can withstand	117

Configuration of memory (GB)	4~8
Configuration of internal storage (piece)	1~2
Configuration of discrete television tuner	0
(piece)	O
Configuration of discrete audio card	0
(piece)	ů.
Configuration of discrete graphics cards	0~1
(piece)	-
Configuration of discrete graphics cards	G1
category	
The external package of the notebook	
provides the information, "The battery in	Not applicable
this product cannot be easily replaced by	. Tot applicable
users themselves."	
For products with an integrated display,	Not applicable
the total content of mercury is	тчот арріїсавіе
Measurement methodology for E <sub>TEC</sub>	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 <sub>TEC</sub> 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 2 <sup>nd</sup> edition (December 1987) Declared Noise Emission Values of Computer and Business Equipment: 4. Determination of the declared noise emission values. ECMA-74 11 <sup>th</sup> 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	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 <sup>®</sup> 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=p ower mgt.pr power mgt users
User information on how to enable the power management functionality	http://www.energystar.gov/index.cfm?c=p ower mgt.pr power mgt 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 distortion of the electricity supply system	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	