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

Product type	Desktop computer		
Product category	В	С	D
Manufacturar name address	Acer Italy s.r.l,		
Manufacturer name, address	Via Lepetit, 40, 20020	Clainate (MI) Italy	
Dod of model or other		Veriton X2630;	
Product model number		Veriton X2631.	
Year of manufacture		2014	
E <sub>TEC</sub> allowance with capability			
adjustments when discrete graphics cards	172 kWh/year	188 kWh/year	223 kWh/year
are disabled (from 1 July 2014)			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
E <sub>TEC</sub> allowance with capability			
adjustments when discrete graphics cards	241 Watt	257 kWh/year	292 kWh/year
are enabled (from 1 July 2014)			,
E <sub>TEC</sub> allowance with capability			
adjustments when discrete graphics cards	126 kWh/year	134 kWh/year	146 kWh/year
are disabled (from 1 January 2016)			,
E <sub>TEC</sub> allowance with capability			
adjustments when discrete graphics cards	164 Watt	172 kWh/year	200 kWh/year
are enabled (from 1 January 2016)			,
Whether all discrete graphics card are	Vaa	Var	V
enabled during the test	Yes	Yes	Yes
Whether switchable graphics mode with	No	No	No
UMA is driving the display during the test	INO	No	No
E <sub>TEC</sub> of highest power-demanding	131.97 kWh/year	133.21 kWh/year	119.71 kWh/year
configuration	131.97 KVVII/year		119.71 KVVII/year
Idle state power demand	35.87 Watt	35.51 Watt	32.83 Watt
Sleep mode power demand	2.39 Watt	2.13 Watt	2.16 Watt
Sleep mode with WOL enabled power	2.48 Watt	2.22 Watt	2.45 Watt
demand			
Off mode power demand	0.33 Watt	0.33 Watt	0.33 Watt
Off mode with WOL enabled power	0.33 Watt	0.33 Watt	0.33 Watt
demand			
Maximum power demand	Not applicable	Not applicable	Not applicable
Internal power supply (IPS) efficiency at	10% - 87.62%	10% - 87.62%	10% - 87.62%
10 %, 20 %, 50 % and 100 % of rated	20% - 88.80%	20% - 88.80%	20% - 88.80%
	50% - 87.51%	50% - 87.51%	50% - 87.51%
output power	100% - 95.27%	100% - 95.27%	100% - 95.27%
External power supply's (EPS) average			
active efficiency	Not applicable	Not applicable	Not applicable
<u>,                                      </u>			
Noise levels (the declared A-weighted	3.3 B	3.3 B	3.3 B
sound power level, L <sub>WAd</sub> ) of idle mode			
Noise levels (the declared A-weighted	_	_	_
sound power level, L <sub>WAd</sub> ) of "HDD random	3.4 B	3.4 B	3.4 B
seek" mode			

the batteries can withstand Configuration of memory Configuration of internal storage I piece Opiece	Minimum number of loading cycles that				
Configuration of internal storage Configuration of discrete television tuner Configuration of discrete television tuner Configuration of discrete graphics cards Configuration of card particles of the European Parliament and of the Council with regard to ecdesign requirements for computers and computers of energy consumption Society of energial cards of energy con	the batteries can withstand	Not applicable	Not applicable	Not applicable	
Configuration of discrete television tuner Configuration of discrete audio card O piece O piec	Configuration of memory	2 ~ 16 GB	2 GB	4 ~ 16 GB	
Configuration of discrete audio card Configuration of discrete graphics cards Configuration of discrete graphics cards Configuration of discrete graphics cards Category The battery in this product cannot be assily replaced by users themselves For products with an integrated display, the total content of mercury is  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. Erro formula  EN 62623:2013 — Desktop and notebook computers — Measurement methodology for idle mode  Measurement methodology for sleep mode  Measurement methodology for sleep mode  Measurement methodology for off mode	Configuration of internal storage	1 piece	1 piece	1 piece	
Configuration of discrete graphics cards Configuration of discrete graphics cards Configuration of discrete graphics cards Castegory The battery in this product cannot be easily replaced by users themselves For products with an integrated display, the total content of mercury is  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 Erro formula  EN 62623:2013 — Desktop and notebook computers — Measurement methodology for idle mode  Measurement methodology for idle mode  Measurement methodology for sleep mode  Measurement methodology for sleep mode  Measurement methodology for off mode  Measurement methodology for idle mode  Measurement methodology for off mode  Measurement methodology for idle mode  Measurement methodology for off mode  Measurement methodology for idle mode  Measurement methodology for idle mode  Measurement methodology for off mode  Measurement methodology for off mode  Measurement methodology for off mode  Measurement methodology for idle mode  Measurement	Configuration of discrete television tuner	0 piece	0 piece	0 piece	
Configuration of discrete graphics cards category  The battery in this product cannot be easily replaced by users themselves For products with an integrated display, the total content of mercury is  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. Erro formula.  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 accuracy; Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.  Measurement methodology for sleep mode  Measurement methodology for off mode  Measurement methodology for IPS  Measurement	Configuration of discrete audio card	0 piece	0 piece	0 piece	
The battery in this product cannot be assily replaced by users themselves For products with an integrated display, the total content of mercury is  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 Erg formula.  EN 62623:2013 — Desktop and notebook computers — Measurement methodology for idle mode  Measurement methodology for idle mode  Measurement methodology for sleep mode  Measurement methodology for off mode  Measurement methodology for IPS  Measurement methodology for EPS  Measurement methodology for EPS  Mot applicable  Not applicable	Configuration of discrete graphics cards	1 piece	1 piece	1 piece	
Category The battery in this product cannot be easily replaced by users themselves For products with an integrated display, the total content of mercury is  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.  EN 62623:2013 — Desktop and notebook computers — Measurement methodology for idle mode: 5.2 Test setup; 5.3.5 Measuring short idle mode; 5.7 True RMS watt meter accuracy; Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.  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 specification; 5.8 True RMS watt meter accuracy.  EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption 5.2 Test setup; 5.3.2 Measuring sleep mode; 5.4 Test conditions; 5.7 True RMS watt meter accuracy.  EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption 5.2 Test setup; 5.3.2 Test setup; 5.3.3 Measuring off mode; 5.4 Test conditions; 5.7 True RMS watt meter accuracy.  EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption 5.2 Test setup; 5.3.2 Test setup; 5.3.5 Measuring off mode; 5.4 Test conditions; 5.7 True RMS watt meter accuracy.  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  Not applicable	"	G3	G3	G3	
easily replaced by users themselves For products with an integrated display, the total content of mercury is  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 Erg formula.  EN 62623:2013 — Desktop and notebook computers — Measurement methodology for idle mode  5.2. Test setup; 5.3.5. Measuring short idle mode; 5.7. True RMS watt meter accuracy; Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.  EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption 5.2. Test setup; 5.3.3. Measuring short idle mode; 5.4. Test conditions; 5.5. True RMS watt meter accuracy; Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.  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.  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.  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  Not applicable					
easily replaced by users themselves For products with an integrated display, the total content of mercury is  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. Erec formula.  EN 6263:2013 — 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 accuracy; Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.  EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption 5.2. Test setup; 5.3.3. Measuring short idle mode; 5.7. True RMS watt meter accuracy; Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.  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 accuracy.  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 accuracy.  Measurement methodology for IPS  Measurement methodology for IPS  Measurement methodology for IPS  Measurement methodology for EPS  Measurement methodology for EPS  Mot applicable  Not applicable	•	Not applicable	Not applicable	Not applicable	
the total content of mercury is  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					
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.  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.  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 accuracy.  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 accuracy.  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 accuracy.  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 accuracy.  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  Not applicable		Not applicable	Not applicable	Not applicable	
Measurement methodology for Erective 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. Erectormula.  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.  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 specification;  5.8. True RMS watt meter accuracy.  EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption  5.2. Test setup;  5.3.2. 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  Measurement methodology for IPS  Measurement methodology for IPS  efficiency  Measurement methodology for EPS  Not applicable	the total content of mercury is		•		
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.  EN 62623:2013 — Desktop and notebook computers —  Measurement methodology for idle mode  Measurement methodology for idle mode  Measurement methodology for idle mode  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.  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.  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 accuracy.  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 accuracy.  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  Not applicable		COMMISSION REGI	JLATION (EU) No 617	7/2013 of 26 June	
requirements for computers and computer servers:  ANNEX II Ecodesign requirements and timetable:  1.1.1. E <sub>TEC</sub> formula.  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 accuracy;  Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.  EN 62623:2013 — Desktop and notebook computers —  Measurement methodology for sleep mode  Measurement methodology for sleep mode  Measurement methodology for sleep mode  Measurement methodology for off mode  Measurement methodology for IPS efficiency  Measurement methodology for EPS  Measurement methodology for EPS  Mot applicable  Not applicable		2013 implementing D	Directive 2009/125/EC	of the European	
ANNEX II Ecodesign requirements and tomputer servers:  ANNEX II Ecodesign requirements and timetable:  1.1.1. E <sub>TEC</sub> formula.  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.  EN 62623:2013 — Desktop and notebook computers —  Measurement methodology for sleep mode;  5.4. Test conditions;  5.7. True RMS watt meter specification;  5.8. True RMS watt meter specification;  5.8. True RMS watt meter accuracy.  EN 62623:2013 — Desktop and notebook computers —  Measurement of energy consumption  5.2. Test setup;  5.3. True RMS watt meter specification;  5.8. True RMS watt meter specification;  5.9. True RMS watt meter accuracy.  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 specification;  5.8. True RMS watt meter specification;  5.8. True RMS watt meter accuracy.  Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Not applicable	Mark and the first falls of the F	Parliament and of the	e Council with regard t	o ecodesign	
1.1.1. E <sub>TEC</sub> formula.  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.  EN 62623:2013 — Desktop and notebook computers — 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.  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 accuracy.  Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Not applicable	Measurement methodology for ETEC	requirements for com	nputers and computer	servers:	
1.1.1. E <sub>TEC</sub> formula.  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.  EN 62623:2013 — Desktop and notebook computers — 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.  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 accuracy.  Generalized Test Protocol for Calculating the Energy Efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Not applicable		ANNEX II Ecodesia	n requirements and ti	metable:	
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.  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.  EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption 5.2. Test setup; 5.3.2. True RMS watt meter specification; 5.8. True RMS watt meter accuracy.  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 specification; 5.8. True RMS watt meter accuracy.  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  Not applicable		1			
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.  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 accuracy.  EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption 5.2. Test setup; 5.3. True RMS watt meter specification; 5.8. True RMS watt meter accuracy.  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 specification; 5.8. True RMS watt meter accuracy.  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  Not applicable					
Measurement methodology for idle mode  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.  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.  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 specification; 5.9. True RMS watt meter specification; 5.9. True RMS watt meter specification; 5.9. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Not applicable			•		
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.  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.  EN 62623:2013 — Desktop and notebook computers — Measurement of energy consumption 5.2. Test setup; 5.3.2. True RMS watt meter specification; 5.8. True RMS watt meter accuracy.  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 of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Not applicable			rgy consumption.		
Measurement methodology for 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.  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.  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 specification; 5.8. True RMS watt meter specification; 5.9. True RMS watt meter specification; 5.9. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  Measurement methodology for EPS  Not applicable					
S.7. True RMS watt meter specification; 5.8. True RMS watt meter accuracy; Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.  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.  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 specification; 5.8. True RMS watt meter specification; 5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Measurement methodology for EPS  Not applicable	Measurement methodology for idle mode				
Annex E.2 (informative) ENERGY STAR® V5 compliant testing methodology.  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.  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 accuracy.  Measurement methodology for off mode 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 specification; 5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Measurement methodology for EPS  Not applicable	0,	·			
methodology.  EN 62623:2013 — Desktop and notebook computers — Measurement methodology for sleep mode  Measurement methodology for sleep mode  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.  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 specification; 5.9. True		5.8. True RMS watt meter accuracy;			
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.  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 accuracy.  Measurement methodology for off mode 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 of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Measurement methodology for EPS  Not applicable		Annex E.2 (informative) ENERGY STAR® V5 compliant testing			
Measurement methodology for sleep mode  Measurement methodology for sleep mode;  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.  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 specification;  5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Measurement methodology for EPS  Not applicable		methodology.			
Measurement methodology for sleep mode  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.  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 specification; 5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  Measurement methodology for EPS  Measurement methodology for EPS  Not applicable		EN 62623:2013 — Desktop and notebook computers —			
Measurement methodology for sleep mode:  5.3.3. Measuring sleep mode;  5.4. Test conditions;  5.7. True RMS watt meter specification;  5.8. True RMS watt meter accuracy.  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 specification;  5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Measurement methodology for EPS  Not applicable		·			
Measurement methodology for sleep mode:  5.3.3. Measuring sleep mode;  5.4. Test conditions;  5.7. True RMS watt meter specification;  5.8. True RMS watt meter accuracy.  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 specification;  5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Measurement methodology for EPS  Not applicable		,			
5.4. Test conditions; 5.7. True RMS watt meter specification; 5.8. True RMS watt meter accuracy.  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 specification; 5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  Measurement methodology for EPS  Mot applicable  Not applicable	Measurement methodology for sleep	•			
5.7. True RMS watt meter specification; 5.8. True RMS watt meter accuracy.  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 specification; 5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  Measurement methodology for EPS  Not applicable	mode				
5.8. True RMS watt meter accuracy.  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  Measurement methodology for EPS  Measurement methodology for EPS  Not applicable		,			
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  Measurement methodology for EPS  Measurement methodology for EPS  Not applicable		·			
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  Measurement methodology for EPS  Measurement methodology for EPS  Not applicable  Measurement of energy consumption  5.2. Test setup; 5.3.2. Measuring off mode; 5.4. Test conditions; 5.7. True RMS watt meter accuracy.  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 off mode  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  Measurement methodology for EPS  Measurement methodology for EPS  Not applicable					
Measurement methodology for off mode  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  Measurement methodology for EPS  Measurement methodology for EPS  Not applicable		,			
5.4. Test conditions; 5.7. True RMS watt meter specification; 5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  Measurement methodology for EPS  Measurement methodology for EPS  Not applicable		•			
5.7. True RMS watt meter specification; 5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  Measurement methodology for EPS  Measurement methodology for EPS  Not applicable	Measurement methodology for off mode	5.3.2. Measuring off mode;			
5.8. True RMS watt meter accuracy.  Measurement methodology for IPS efficiency  Measurement methodology for EPS  Measurement methodology for EPS  Solution    Solu		5.4. Test conditions;			
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).  Not applicable		5.7. True RMS watt meter specification;			
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).  Not applicable		5.8. True RMS watt meter accuracy.			
Measurement methodology for IPS of Internal Ac-Dc and Dc-Dc Power Supplies Revision 6.6 (April,2012).  Measurement methodology for EPS  Not applicable		· ·			
Measurement methodology for EPS  Not applicable					
Measurement methodology for EPS  Not applicable	efficiency	• •			
efficiency	Measurement methodology for EPS				
	efficiency				

	[=====================================
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;
	<ul> <li>6. Method for determination of sound power levels of equipment in reverberation test rooms;</li> <li>7. Method for determination of sound power levels of equipment under essentially free-field conditions over a reflecting plane;</li> <li>Annex C.15 Equipment category: personalcompute rs and workstations.</li> </ul>
Measurement methodology for battery	Not applicable
loading cycles	
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 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=power mgt.pr power mgt users
User information on how to enable the	http://www.energystar.gov/index.cfm?c=power mgt.pr power m
power management functionality	<u>gt_users</u>
Test parameter for ambient temperature	25 °C
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 70
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	