


# THE ECO DECLARATION



Ecma/TC38-TG3/2015/026  
(Rev. 1 – 15 April 2015)

## Annex B2 - Product environmental attributes Notebooks and Tablets


The declaration may be published only when all rows and/or fields marked with \* are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

<b>Brand *</b>	<a href="#">Lenovo</a>	<b>Logo</b> 
<b>Company name *</b>	<a href="#">Lenovo</a>	
<b>Contact information * e-mail address</b>	<a href="#">Lenovo Global Environmental Affairs</a> <a href="#">Alvin L Carter</a> <a href="mailto:alcarter@lenovo.com">alcarter@lenovo.com</a>	
<b>Internet site *</b>	<a href="http://www.lenovo.com/social_responsibility/us/en/environment.html">http://www.lenovo.com/social_responsibility/us/en/environment.html</a>	
<b>Additional information</b>	<i>The latest version of this document can be found at:</i> <a href="http://www.lenovo.com/ecodeclaration">http://www.lenovo.com/ecodeclaration</a>	

<b>The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.</b>	
<b>Type of product *</b>	<a href="#">NB</a>
<b>Commercial name *</b>	<a href="#">Lenovo ideapad 320S-15ABR</a>
<b>Model number *</b>	<a href="#">80YA, 80YB</a>
<b>Issue date *</b>	<a href="#">2017/6/20</a>
<b>Intended market *</b>	<input checked="" type="checkbox"/> Global <input type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <input type="checkbox"/> Other
<b>Additional information</b>	


This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

<b>About Annex B2</b>
Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template: P4.1 – P4.3 Consumable materials P9.1 TEC and Print speed P10.2 - P10.3 Chemical emissions from printing products P11.1 - P11.3 Consumable materials for printing products.

<b>Model number *</b>	80YA, 80YB	<b>Logo</b>	
<b>Issue date *</b>	2017/6/20		

<b>Product environmental attributes - Legal requirements</b>		<b>Requirement met</b>		
Item		Yes	No	n.a.
<b>P1 Hazardous substances and preparations</b>				
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm <sup>2</sup> /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P2 Batteries</b>				
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P3 Conformity verification &amp; Eco design (ErP)</b>				
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P3.2*	The product complies with the Eco design requirements for energy-related products, (see legal reference). Required information is; <input type="checkbox"/> given in item P15 or added to this document, <input type="checkbox"/> available at (add URL):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P5 Product packaging</b>				
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P6 Treatment information</b>				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model number *	80YA, 80YB	Logo	
Issue date *	2017/6/20		

Product environmental attributes - Market requirements (See General NOTE GN below)		Requirement met		
- Environmental conscious design		Yes	No	n.a.
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.			
<b>P7 Design</b>				
<b>Disassembly, recycling</b>				
P7.1*	Parts that have to be treated separately are easily separable	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.2*	Plastic materials in covers/housing have no surface coating.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Product lifetime</b>				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.8*	Upgrading can be done using commonly available tools	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.9	Spare parts are available after end of production for: 5 years			<input type="checkbox"/>
P7.10	Service is available after end of production for: 5 years			<input type="checkbox"/>
<b>Material and substance requirements</b>				
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: <b>PC+ABS</b> Material type: <b>Metal</b> Material type: <b>Aluminum</b>			
P7.12	Insulation materials of external electrical cables are PVC free.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.13	Insulation materials of internal electrical cables are PVC free.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all <input type="checkbox"/> PCBs > 25 g <input type="checkbox"/> are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: <b>&gt;PC+ABS&lt;</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): <input type="checkbox"/> TBBPA (additive), <input type="checkbox"/> TBBPA (reactive) (See NOTE B3), <input type="checkbox"/> Other: <b>chemical name</b> , CAS #: Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: <b>FR16</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: 1. Chemical name:                      , CAS #:                      (See NOTE B4) 2. Chemical name:                      , CAS #:                      " 3. Chemical name:                      , CAS #:                      " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases;                      and Hazard statements: The source(s) for these classifications is/are found at (add URL(s)):                      ,                      (See note B5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):  If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is <b>0.6%</b> . or b) The weight of recycled material is <b>5.2 g</b> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model number *	80YA, 80YB	Logo	
Issue date *	2017/6/20		

<b>Product environmental attributes - Market requirements (continued)</b>	<b>Requirement met</b>
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Item	Yes	No	n.a.
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<b>Material and substance requirements (continued)</b>
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P7.21* Biobased plastic material content is used in the product (See NOTE B7): <span style="float:right"><input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/></span> If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is        %. or b) The weight of the biobased plastic material is        g.
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P7.22* Light sources are free from mercury, i.e. less than 0,1 mg/lamp. If mercury is used specify: Number of lamps:        and maximum mercury content per lamp:        mg <span style="float:right"><input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/></span>
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<b>P8 Batteries</b>
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P8.1* Battery chemical composition:	<input checked="" type="checkbox"/>
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<b>P9 Energy consumption (See NOTE B8)</b>
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P9.1 For the product the following power levels or energy consumptions are reported:

Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method *	<input type="checkbox"/>
<b>Peak (On-max)</b>	65 W	65 W	65 W	Full load	
<b>Category NBI3</b>					
Short Idle State - WOL Enabled	7.660 W	7.556 W	7.890 W	Reference	
Long Idle State - WOL Enabled	5.313 W	5.259 W	5.287 W	Reference	
Sleep (S3) - WOL Enabled	0.378 W	0.391 W	0.500 W	Reference	
Sleep (S3) - WOL Disabled	0.378 W	0.391 W	0.500 W	Reference	
Off (S5) - WOL Enabled	0.244 W	0.245 W	0.332 W	Reference	
Off (S5) - WOL Disabled	0.244 W	0.245 W	0.332 W	Reference	
	26.48 W	26.20 W	27.63 W	Reference	
EPS No-load <small>(External power supply / charger plugged in the wall outlet but disconnected from the product.)</small>	0.052 W	0.058 W	0.142 W		
PTEC *	W	W	W		<input type="checkbox"/>
Typical Energy Consumption					
ETEC * Annual Energy Consumption	26.48 kWh/year	26.20 kWh/year	27.63 kWh/year		<input type="checkbox"/>
External Power Supply Efficiency Level (International Efficiency Marking Protocol) * : V					<input type="checkbox"/>
Display resolution * : 1366 X 768 megapixels					<input type="checkbox"/>
Default time to enter energy save mode: 10 minutes					<input type="checkbox"/>
P9.2* Information about the energy save function is provided with the product.					<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
P9.3 Energy efficiency class (monitors only):					<input checked="" type="checkbox"/>

<b>P10 Emissions</b>
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**Noise emission** – Declared according to ISO 9296 (See NOTE B9)

P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)
	Idle	* 18.4	* 2.7 <input type="checkbox"/>
	Operation	* 34.3	* 4.4 <input type="checkbox"/>
	Other mode		
Measured according to: <input checked="" type="checkbox"/> ISO 7779 <input type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74)			

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

NOTE B9 A Guidance document on Acoustic Noise is available; see <http://www.ecma-international.org/publications/standards/Ecma-370.htm>

Model number *	80YA, 80YB	Logo	
Issue date *	2017/6/20		

Product environmental attributes - Market requirements (continued)		Requirement met		
Item		Yes	No	n.a.
<b>Electromagnetic emissions</b>				
P10.4	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program(s):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>P12 Ergonomics for computing products</b>				
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>P13 Packaging and documentation</b>				
P13.1*	Product packaging material type(s): <i>paper</i> weight (kg): <i>0.3781</i> Product packaging material type(s): <i>EPE</i> weight (kg): <i>0.083</i> Product packaging material type(s): <i>LDPE</i> weight (kg): <i>0.0020</i>			
P13.2*	Product plastic primary packaging is free from PVC.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: <i>80</i> %			<input type="checkbox"/>
P13.4*	Specify media for user and product documentation (tick box): <input checked="" type="checkbox"/> Electronic, <input checked="" type="checkbox"/> Paper, <input type="checkbox"/> Other			<input type="checkbox"/>
P13.5	(Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: If Yes, please specify: Totally chlorine-free Elemental chlorine-free Processed chlorine-free	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>P14 Voluntary programs</b>				
P14.1	The product meets the requirements of the following voluntary program(s):  ENERGY STAR® Criteria version: Date: Product category: Eco-label: Criteria version: Date: Product category: Eco-label: Criteria version: Date: Product category:			
<b>P15 Additional information (See NOTE B10)</b>				
P9	<b>Energy consumption of specific configuration may vary; description of the tested product configuration:</b>			

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

## Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII)	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2.3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC ( Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1

# Lenovo ErP Lot3 Information Sheet


## - PC / Notebook -

As required by 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 (ErP Lot3).

### Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	Lenovo ideapad 320S-15ABR	Logo 
Model Number	80YA, 80YB	
Issue Date	2017/6/20	
Additional information		

P7.1.1 Product environmental attributes					
(d) year of manufacture: <span style="float: right;">2017</span>					
(e) <b>Etec value</b> (kWh) per ErP Lot 3 Category and capability adjustments applied when <b>all discrete graphics cards (dGfx) are disabled</b> and if the system is tested with switchable graphics mode with UMA driving the display.					
(f) <b>Etec value</b> (kWh) per ErP Lot 3 Category and capability adjustments applied when <b>all discrete graphics cards (dGfx) are enable</b>					
		Category A (according to ErP Lot 3)	Category B (according to ErP Lot 3)	Category C (according to ErP Lot 3)	Category D (according to ErP Lot 3)
capability adjustments applied during testing	Memory over base [GB]		8		
	Additional internal storage	(Yes / No)	No (Yes / No)	(Yes / No)	(Yes / No)
	Discrete television tuner	(Yes / No)	No (Yes / No)	(Yes / No)	(Yes / No)
	Discrete Audio Card	(Yes / No)	No (Yes / No)	(Yes / No)	(Yes / No)
	Discrete graphics Card(s) [number / #]	(Yes / No) #:	Yes #: 1 (Yes / No)	(Yes / No) #:	(Yes / No) #:
	Category of discrete graphics Card(s)		G1		
Test results	<b>Etec Value (kWh) - dGfx disabled</b> all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)		16.08		
	<b>Etec Value (kWh) - dGfx enabled</b> all discrete graphics cards (dGfx) are enabled				
(g) Idle state power demand (Watts); <span style="float: right;">5.29</span>					
(h) Sleep mode power demand (Watts); <span style="float: right;">0.50</span>					
(i) Sleep mode with WOL enabled power demand (Watts) (where enabled); <span style="float: right;">NA</span>					
(j) Off mode power demand (Watts); <span style="float: right;">0.33</span>					
(k) Off mode with WOL enabled power demand (Watts) (where enabled); <span style="float: right;">NA</span>					
(l) Internal power supply efficiency at 10 %, 20 %, 50 % and 100 % of rated output power (if applicable): 10%      20%      50%      100%      Average					
(m) external power supply efficiency (if applicable)*: Average active efficiency: <b>45W:88.40%;88.64%;88.53%;65W : 89.23%,89.31%,88.93%</b>					
(o) Minimum number of loading cycles that the batteries can withstand (applies only to notebook computers): <span style="float: right;">300CYCLES</span>					
(p-1) Measurement methodology used to determine information mentioned in points (l) – internal PSU efficiency: <span style="float: right;">NA</span>					

(p-2)	Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency: <b>EPA “Test Method for Calculating the Energy Efficiency of Single-voltage External AC-DC and AC-AC Power Supplies” dated August 11, 2004</b>
(p-3)	Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: <b>IEC 61960 measurement methodology</b>
(p-4)	Measurement methodology used to determine information mentioned in maximum, idle, sleep, off mode power as defined in Point P9.1 in the Product IT Eco Declaration: <b>IEC 62623/ IEC EN50564:2011 measurement methodology</b>
(q)	Sequence of steps for achieving a stable condition with respect to power demand:: <b>IEC 62623/ IEC EN50564:2011 measurement methodology</b>
(r)	Description of how sleep and/or off mode was selected or programmed: <b>Energy-star requirement</b>
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode: <b>Energy-star requirement</b>
(t)	<b>Duration of idle state condition before the computer automatically reaches sleep mode</b> , or another condition which does not exceed the applicable power demand requirements for sleep mode (in minutes): <b>30</b>
(u)	<b>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</b> (in minutes): <b>NA</b>
(v)	<b>Length of time before the display sleep mode is set to activate</b> after user inactivity (in minutes): <b>10</b>
(w)	Information on the energy-saving potential of power management functionality: <b>Based on user manual</b>
(x)	user information on how to enable the power management functionality: <b>Based on user manual</b>
(z)	test parameters for measurements: — test voltage in V and frequency in Hz, — total harmonic distortion of the electricity supply system, — information and documentation on the instrumentation, set-up and circuits used for electrical testing: <b>230V50HZ-2%-Edition 2.0, 2011-01, Section 4, IEC62301</b>

#### Addition Notebook Battery Information:

	Battery[ies] <b>not</b> user replaceable	Battery[ies] user replaceable	n/a
	The battery[ies] in this product cannot be easily replaced by users themselves. <sup>1)</sup>		
Internal/built-in Battery	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
External/detachable Battery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bios Backup Battery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### Additional information

1)  
The battery[ies] in this product cannot be easily replaced by users themselves.  
Акумуляторната[ите] батерия[и] в този продукт не може да се замени[ят] лесно от самите потребители.  
Las baterías de este producto no pueden ser sustituidas fácilmente por los propios usuarios.  
Výměnu baterie/baterií v tomto výrobku by neměli provádět sami uživatelé.  
Brugeren kan ikke uden videre udskifte batteriet/batterieerne i dette produkt.  
Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden.  
Kasutajad ei saa selle toote akut/akusid ise hõlpsasti asendada.  
Η μπαταρία[-ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες  
La/les batterie(s) présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes.  
Korisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu.  
La batteria/le batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente.  
Lietotāji paši nevar nomainīt šā ražojuma akumulatoru(-us).  
Šio gaminio baterijos [baterijų] pats vartotojas negali lengvai pakeisti.  
A termék akkumulátorát/akkumulátorait a felhasználó nem tudja egyedül egyszerűen kicserélni.  
Il-batterija/batteriji f'dan il-prodott ma tistax/jistghux tiġi/jiġu sostitwita/i mill-utenti stess.  
Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv.  
De batterij(en) in dit product is (zijn) door de gebruiker niet gemakkelijk vervangbaar.  
Użytkownik nie może sam w łatwy sposób wymienić baterii w tym produkcie.  
A ou as baterias deste produto não podem ser facilmente substituídas pelos próprios utilizadores.  
Bateria (bateriile) din acest produs nu poate (pot) fi ușor înlocuită (înlocuite) de utilizatorii înșiși.  
Batériu(-ie) v tomto výrobku nemôže vymeniť používateľ.  
Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati.  
Tämän tuotteen akku [akut] ei[vät] ole helposti käytettävän vaihdettavissa.  
Det är inte enkelt för kunden att själv byta ut batteriet/batterierna.  
Bu üründeki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.