



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

Annex B2 - Product environmental attributes Computers and computer monitors

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.

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

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.				
Type of product *	Notebook			
Commercial name *	ThinkPad E475			
Model number *	20H4			
Issue date *	2016/10/19			
Intended market *	Global Europe Asia, Pacific & Japan Americas Other			
Additional information				

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

About Annex B2

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

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Issue date *	2016/10/19		LEI IOVO,
Model number *	20H4	Logo	Lanava

	environmental attributes - Legal requirements	equire		t met
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	\boxtimes		
P1.2*	Products do not contain Asbestos (see legal reference).	\boxtimes		
D 1 01	Comment: Legal reference has no maximum concentration value.	<u> </u>		
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),	\boxtimes		
	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum			
	concentration values.			
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated	\boxtimes		
	terphenyl (PCT) in preparations (see legal reference).			
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the	\boxtimes		
	chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).			
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week	\boxtimes		
	(see legal reference).			
P1.7*	Comment: Max limit in legal reference when tested according to EN1811:2011-5. REACH Article 33 information about substances in articles is available at (add URL or mail contact):	\square		
F 1.1	http://www.lenovo.com/social_responsibility/us/en/environment.html		Ш	Ш
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal			
1 2.1	symbol. Information on proper disposal is provided in user manual. (See legal reference)		ш	ш
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal	\boxtimes		
	reference)			
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	\boxtimes		
P3	Conformity verification & Eco design (ErP)			
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference).	\boxtimes		
	The Declaration of Conformity can be requested at (add link or e-mail address):			
P3.2*	The product complies with the Eco design requirements for energy-related products,	\boxtimes		
	(see legal reference).			
	Required information is; given in item P15 or added to this document,	\boxtimes	Ш	Ш
	available at (add URL):			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and	\boxtimes		
P5.2*	hexavalent chromium by weight of these together. The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s)	N/1	_	
P3.2	used (see legal reference).	\boxtimes		Ш
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal	\boxtimes		
	Protocol (see legal reference).			_
	Comment: Legal reference has no maximum concentration values.			
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\boxtimes		

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 *	20H420H4	Logo	Lanava
Issue date *	2016/10/19		Lei Iovo.

- Environmental conscious design - The mandatory to filin Additional information regarding each item may be found under P14 Yes No n.a Design - Disassembly, recycling - P7.2* Plasts that have to be treated separately are easily separable - P7.2* Plasts that have to be treated separately are easily separable - P7.2* Plasts that have to be treated separately are easily separable - P7.3* Plasts that have to be treated separately are easily separable - P7.4* Plastic materials in covers/housing have no surface coating P7.4* Plastic parts > 26 g have material codes according to ISO 11469 referring ISO 1043-4 P1.4* Plastic parts > 28 g have material codes according to ISO 11469 referring ISO 1043-4 P7.5* Plastic parts > 28 g have material codes according to ISO 11469 referring ISO 1043-4 P7.5* Plastic parts > 28 g have material codes according to ISO 11469 referring ISO 1043-4 P7.5* Plastic parts > 28 g have material codes according to ISO 11469 referring ISO 1043-4 P7.5* Plastic parts > 28 g have material codes according to ISO 11469 referring ISO 1043-4 P7.5* Plastic parts > 28 g have material codes according to ISO 11469 referring ISO 1043-4 P7.6* Labels are easily separable P7.7* Upgrading can be done e.g. with processor, memory, cards or drives - P7.8* Upgrading can be done e.g. with processor, memory, cards or drives - P7.9* Spare parts are available after end of production for 5 years - P7.9* Spare parts are available after end of production for 5 years - P7.10* Service is available after end of production for 5 years - P7.11* Product coverinousing material type (e.g., plastics, metal, aluminum): - P7.12* Product Coverinousing material type (e.g., plastics, metal, aluminum): - P7.14* External pastic cashing reversible are PVC free P7.13* Insulation materials of external electrical cables are PVC free P7.14* External plastic cashing/cover parts > 25 g contain more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine in parts containing more than 25% post-	Produc	ct environmental attributes - Market requirements (See General NOTE GN below)			
Pr. 1 Parts that have to be treated separately are easily separable Pr. 2 Plastic materials in covers/housing have no surface coating. Pr. 3 Plastic materials in covers/housing have no surface coating. Pr. 4 Plastic materials in covers/housing have no surface coating. Pr. 4 Plastic materials in covers/housing have no surface coating. Pr. 4 Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4. Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4. Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools. Pr. 5 Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools. Pr. 7 Upgrading can be done e.g. with processor, memory, cards or drives Pr. 7 Upgrading can be done e.g. with processor, memory, cards or drives Pr. 7 Upgrading can be done using commonly available tools Pr. 9 Spare parts are available after end of production for. 5 years Pr. 10 Spare parts are available after end of production for. 5 years Pr. 10 Pr. 1			Require	ment	met
Pr.11* Parts that have to be treated separately are easily separable Pr.2* Plastic materials in covers/housing have no surface coating. Pr.3* Plastic parts > 100 g consist of one material or of easily separable materials. Pr.4* Plastic parts > 25 g have material codes according to ISO 11468 referring ISO 1043-4. Pr.5* Plastic parts > 26 plave material codes according to ISO 11468 referring ISO 1043-4. Pr.5* Plastic parts > 27 g have material codes according to ISO 11468 referring ISO 1043-4. Pr.5* Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools. □ Pr.6* Labels are easily separable. (This requirement does not apply to safety/regulatory labels). □ Pr.6* Labels are easily separable. (This requirement according to ISO 11468 referring ISO 1043-4. Pr.7* Upgrading can be done e.g. with processor, memory, cards or drives □ Pr.8* Upgrading can be done e.g. with processor, memory, cards or drives Pr.9* Spare parts are available after end of production for: 5 years □ Pr.10* Service is available after end of production for: 5 years ■ Pr.11* Product cover/housing material type (e.g. plastics, metal, aluminum): Material and substance requirements Pr.12* Insulation materials of internal electrical cables are PVC free. □ Pr.13* Insulation materials of internal electrical cables are PVC free. □ Pr.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. □ Printed circuit boards, PCBs (without components): □ Printed circuit boards, PCBs (without components): □ Reparation and the productions of flame retardants in printed circuit boards (without components): □ Reparation and the product plastic parts > 25 g in covers / housings are marked according		*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
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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. P7.15 Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low halogen as defined in IEC 61249-2-21. (See 1NOTE B2) F1.16 Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:					- -
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TBBPA (additive), TBBPA (reactive) (See NOTE B3), Other: DOPO, CAS #: 35948-25-5 Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: FR(40) 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: Phosphorus compounds, CAS #: confidential (See NOTE B4) 2. Chemical name: , CAS #: 3. Chemical name: , CAS #: 4lt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:FR(40) 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)): 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 10.79%.	P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:	\boxtimes		
Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: FR(40) 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: Phosphorus compounds, CAS #: confidential (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:FR(40) 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) 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 10.79%. or	P7.17				
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or		a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as			
		. , , , , , , , , , , , , , , , , , , ,			

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 *	20H4				Logo	Longva	
Issue date *	2016/10/	19				Lenovo	гм
Product enviro	nmental at	tributes - Market re	equirements (conti	nued)		Requirement	met
Item						Yes No	n.a.
		stance requirements					
P7.21* Biobas	sed plastic m	naterial content is used	I in the product (See N	OTE B7):			Ш
a) C o or	of total plasti f total plastic		·).	ered; material content (calcu	ılated as a percenta	ge	
	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						
P8 Batter							
			on / Lithium Mangane	ese Dioxide			
		tion (See NOTE B8)					
P9.1 For the Energy mode *	e product the	Power level	s or energy consumpti Power level at	ons are reported: Power level at	Reference/Standa	ard for operay	
Lifelgy filode		100 V AC	115 V AC	230 V AC	modes and test m		
Peak (On-max)		65 W	65 W	65 W	Full load		
Category -I1-							
Short Idle State - Enabled	WOL	7.36 W	7.39 W	7.28 W	Use for ENERGY registration (Pidle		
Long Idle State - Enabled	WOL	5.13 W	5.28 W	4.8 W	Use for ENERGY registration (P _{idle}		
Sleep (S3) - WOL	Enabled	0.72 W	0.71 W	0.74 W	Use for ENERGY registration(P _{sleet}		
Off (S5) - WOL En	abled	0.39 W	0.4 W	0.43 W	Use for ENERGY registration(P _{off})	STAR V6	
Category –I3-							
Peak (On-max)		65 W	65 W	65 W	Peak (On-max)		
Short Idle State - Enabled	WOL	6.91 W	6.53 W	6.93 W	Reference		
Long Idle State - Enabled	WOL	4.93 W	5.02 W	4.63 W	Reference		
Sleep (S3) - WOL	Enabled	0.77 W	0.75 W	0.79 W	Reference		
Off (S5) - WOL En	abled	0.39 W	0.39 W	0.43 W	Reference		
EPS No-load (External power supply / chanwall outlet but disconnected fr	ger plugged in the om the product.)	2.93 W	2.82 W	2.93 W			
PTEC * Typical Energy Co	nsumption	0.494 kWh/week	0.475 kWh/week	0.492 kWh/week			
ETEC * Annual Energy Co		25.69 kWh/year	24.71 kWh/year	25.63 kWh/year	$E_{TEC} = (8760/1000 + P_{sleep} \times 0.35 + F_{short Idle} \times 0.30)$	P _{long_ldle} x 0.10+	
F (====			Mode(S3) - WOL Enable	ed; P _{idle} : Idle State - V	VOL Enabled	
		,	Efficiency Marking Pro	Otocol) * : VI			붜
Display resolution							H
Detault time to enter	er energy sa	ve mode: 30 minutes			1		1 1

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

Information about the energy save function is provided with the product.

Noise emission - Declared according to ISO 9296 (See NOTE B9)

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

Energy efficiency class (monitors only):

Emissions

P9.2*

P9.3

P10

P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)		
	Idle	* HDD Idle	* 3.0 (dB)		
	Operation	* HDD	* 3.0 (dB)		
		* CPU	* 3.4 (dB)		
	Other mode	Declared A-weighted sound pressure level (dB) $L_{p m Am}$			
	Other mode	Declared A-weighted sound pressure level (dB) $L_{p m Am}$	26 (operator position desktop – operating)		
	Measured accor	rding to: ISO 7779 ECMA-74			
		Other (only if not covered by E	ECMA-74)		

Model number *	20H4	Logo	Longvo
Issue date *	2016/10/19		Lei IOVO.

Product	environmental attributes - N	Market requirements (con	tinued)		Require	ment	met
Item		-			Yes	No	n.a.
	Electromagnetic emissions						
P10.4	Computer display meets the rec program(s): JEITA-ITR (2pin ac			of the following voluntary			
P12	Ergonomics for computing pr						
P12.1*	The display meets the ergonom	nic requirements of ISO 9241-3	307 for visual display	technologies.	\boxtimes		
P12.2*	The physical input device meets	s the requirements of ISO 999	5 and ISO 9241-410).	\boxtimes		
P13	Packaging and documentatio	on					
P13.1*	Product packaging material type Product packaging material type Product packaging material type	e(s): 100% Recycled Polyeth	weight (kg ylene weight (kg weight (kg): 0.029				
P13.2*	Product plastic primary packagi	ing is free from PVC.					
P13.3*	For product primary corrugated consumer recovered fiber conte	ent: 70% (only for Japan) %	ify the contained p	ercentage of minimum pos	it-		
P13.4*	Specify media for user and prod Electronic, Paper, Oth						
P13.5	(Please only complete this item User and product documentation If Yes, please specify:	,					
	Totally chlorine-free Elemental chlorine-free				\boxtimes		
	Processed chlorine-free				Ħ		
P14	Voluntary programs						
P14.1	The product meets the requiren	ments of the following voluntary	y program(s):				
P45	Eco-label: <i>EPEAT</i> Concluded: Con	Criteria version: 6.1 Criteria version: IEEE 1680 Criteria version:	Date: 11.08.2016 Date: 10.10.2016 Date:	Product category: <i>I1,I3</i> Product category: <i>Notebo</i> Product category:	ok		
P15	Additional information (See N			44	•		
F9	NOTE: Supplier makes no repre					a the	
	information contained in this do knowledge available at the time provided here is approximate at information.	ecument. All information provide e of completion, and supplier sl nd provided for informational p	ed by supplier in this hall have no obligati ourposes only. See a	s document is provided base on to update such informati a Lenovo Account Represer	ed on suppon. The int	olier's formati	ion
P9	See Energy Star Qualified Note http://www.energystar.gov/index						

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	ThinkPad E475	Logo	
Model Number	20H4		Lenovo
Issue Date	2016/10/19		reliovo"
Additional information			

d)	Product environmental attributes year of manufacture:							
					2016			
)	Etec value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are disabled and if the system is tested with switchable graphics mode with UMA driving the display.							
)	Etec value (kWh) per ErP Lot 3 Categorienable	ry and capability adjust	tments applied when a	all discrete graphics o	cards (dGfx) are			
		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]	32	32					
	Additional internal storage	No (Yes / No)	No (Yes / No)	(Yes / No)	(Yes / No)			
	Discrete television tuner	No (Yes / No)	No (Yes / No)	(Yes / No)	(Yes / No)			
	Discrete Audio Card	No (Yes / No)	No (Yes / No)	(Yes / No)	(Yes / No)			
cap	Discrete graphics Card(s) [number / #]	No #: 0 (Yes / No)	Yes #: 1 (Yes / No)	#: (Yes / No)	#: (Yes / No)			
	Category of discrete graphics Card(s)		G1					
Test results	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	18.12						
	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled		15.36					
1)	Idle state power demand (Watts);	•	A:5.89 / B:5.34					
)	Sleep mode power demand (Watts);		A:0.71 / B:0.73					
)	Sleep mode with WOL enabled power de	A:0.74 / B:0.73						
)	Off mode power demand (Watts);	A:0.38 / B:0.41						
)	Off mode with WOL enabled power dem	A:0.338/ B:0.41						
	Internal power supply efficiency at 10 %							
	10% 20% 50%	100% Avera	age					
1)	external power supply efficiency (if applicable)*:							
	Average active efficiency: VI							
)	*internal note: show values for all available external power supplies Minimum number of loading cycles that the batteries can withstand (applies only to notebook computers): 500 cycles							
p-1)	Measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency:							

(p-2) Measurement method		dology used to determine information mentioned in p	points (m) – external PSU efficiency:						
	EPA "Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies" dated August 11, 2004								
(p-3)) Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries:								
	IEC 61960 measurement methodology / 0.5C Charge/Discharge								
(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:								
	IEC 62623 / IEC EN50564:2011 measurement methodology								
(p)	Sequence of steps for achieving a stable condition with respect to power demand::								
	IEC 62623 / IEC EN50564:2011 measurement methodology								
(r)	Description of how sleep and/or off mode was selected or programmed:								
	refer to power management, sleep mode: ACPI system level G1/S3 (suspend to RAM) state; off mode: ACPI system level G2/S5 ('soft off') state								
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:								
refer to power management, 20mins automatically reaches sleep mode									
(t)	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 (in minutes):								
(u)	(u) Length of time after a period of user inactivity in which the computer automatically reaches a power								
(v)	mode that has a lower power demand requirement than sleep mode (in minutes): (v) Length of time before the display sleep mode is set to activate after user inactivity (in minutes):								
(v) Length of time before the display sleep mode is set to activate after user inactivity (in minutes): 10 (w) Information on the energy-saving potential of power management functionality:									
refer to user manual									
(x)	user information on how to enable the power management functionality:								
refer to user manual									
(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:									
230V, 50GHz-<0.5%-ENERGY STAR Test Method for Computers, Rev. Aug-2010									
Addition	Notebook Battery								
		Battery[ies] <u>not</u> user replaceable	Battery[ies] user replaceable	n/a					
		The battery[ies] in this product cannot be easily replaced by users themselves. $^{\rm 1)}$							
Internal/built-in Battery									
External/detachable Battery									
Bios Backup Battery									
Other:									
Additional information									
1) The battervlies	l in this product cannot be	easily replaced by users themselves.							

Акумулаторната[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/batterierne i dette produkt.

Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden.

Der Akkurdie Akkus dieses Produkts kantrikonnen nicht ohne weiteres vom Benutzer seinst ausgetauscht werden. Kasutajad ei saa selle toote akut/akusid ise hölpsasti 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/jistgħux 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 uşor înlocuită (înlocuite) de utilizatorii înşişi.
Bateriu(-ie) v tomto výrobku nemôže vymieňať používateľ.
Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati.
Tämän tuotteen akku [akut] ei[vät] ole helposti käyttäjän vaihdettavissa.
Det är inte enkelt för kunden att själv byta ut batteriet/batterierna.
Bu üründeki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.