

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.

Brand *	Lenovo	Logo
Company name *	Lenovo	
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Additional information	The latest 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 *	Lenovo S15 G3 ABA				
Model number *	82U0				
Issue date *	2022-3-18				
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

Model nu	mber *	82U0 Logo	Lon		
Issue dat	e *	2022-3-18	Len		
Product	environ	mental attributes - Legal requirements	Require	men	t met
Item		- · ·	Yes	No	n.a.
P1	Hazardo	ous substances and preparations			
P1.1*	Products	s do comply with current European RoHS Directive. (See legal reference and NOTE B1)	$\boxtimes$		
P1.2*		s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.	$\boxtimes$		
P1.3*	hydrobro trichloro	s do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), pmofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1- ethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum ration values.			
P1.4*		s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated /I (PCT) in preparations (see legal reference).	$\square$		
P1.5*	Products	s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in intaining at least 48% per mass of chlorine in the SCCP (see legal reference).	the 🔀		
P1.6*	(see leg	th direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/we al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.	eek 🔀		
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail contact): www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure	$\square$		
P2	Batterie	S			
P2.1*		oduct contains a battery or an accumulator, the battery/accumulator is labeled with the disposal Information on proper disposal is provided in user manual. (See legal reference)	$\boxtimes$		
P2.2*		s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See leg	gal 🔀		
P2.3*	Batteries	s and accumulators are readily removable. (See legal reference)	$\boxtimes$		
P3	Conform	nity verification & Eco design (ErP)			
P3.1*	The proo	duct is CE-marked to show conformance with applicable legal requirements (see legal reference beclaration of Conformity can be requested at (add link or e-mail addre www.lenovo.com/us/en/compliance/eu-doc for EU and			
	https://v	www.lenovo.com/us/en/compliance/uk-doc for UK			
P3.2*		duct complies with the Eco design requirements for energy-related products, al reference).	$\square$		
		d information is; given in item P15 or added to this document, available at (add URL):	$\square$		
		www.lenovo.com/us/en/compliance/eco-declaration			
P5		t packaging			
P5.1*	hexaval	ng and packaging components do not contain more than 0,01% lead, mercury, cadmium ent chromium by weight of these together.			
P5.2*		kaging materials are marked with abbreviations and numbers indicating the nature of the materia ee legal reference).	al(s) 🔀		
P5.3*	The prod (see lega	duct packaging material is free from ozone depleting substances as specified in the Montreal Proto al reference). nt: Legal reference has no maximum concentration values.	ocol 🔀		
P6		Int information			
P6.1*		ion for recyclers/treatment facilities is available (see legal reference).			

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 n	umber *	82U0	Logo	Lon		
Issue da	ite *	2022-3-18		Lend		
Product		mental attributes - Market requirements (See General NOTE GN	below)			
		onmental conscious design		Requirer		
Item P7		tory to fill in. Additional information regarding each item may be found under P14. <b>Disassembly, recycling</b>		Yes	No	n.a.
P7.1*		at have to be treated separately are easily separable				
P7.2*		naterials in covers/housing have no surface coating.				⊢⊢
P7.3*		arts > 100 g consist of one material or of easily separable materials.				⊢⊢
P7.4*		arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.			- 🕂	╶岩
P7.5			<u> </u>	⊢⊢		
P7.6*		arts are free from metal inlays or have inlays that can be removed with commonly a re easily separable. (This requirement does not apply to safety/requlatory labels).			- #-	⊢⊢
11.0	Product					
P7.7*		ng can be done e.g. with processor, memory, cards or drives				
P7.8*		Upgrading can be done using commonly available tools				Ħ
P7.9	Spare pa	arts are available after end of production for: 3 years				H
P7.10	Service i	s available after end of production for: <b>5</b> years				Ħ
		and substance requirements				
P7.11*	Product	cover/housing material type (e.g. plastics, metal, aluminum):				
		type: PC+ABS Material type: aluminum				
P7.12		n materials of external electrical cables are PVC free.		<u> </u>		_Ц
P7.13		n materials of internal electrical cables are PVC free.				
P7.14	External	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) b 1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flam	promine and 0,1	% 🔀		
		chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine i				
		in 25% post-consumer recycled content.	··· F -··· ·	.9		
P7.15	as define	circuit boards, PCBs (without components) are low halogen: all			$\square$	
P7.16	Marking:					
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without c PA (additive), TBBPA (reactive) (See NOTE B3), Other: , CAS #:	omponents):			
	<u>Alt. 2: </u> Cł	nemical specifications of flame retardants in printed circuit boards (without compon	ents) > 25 g			
	accordin	g ISO 1043-4:	, -			
P7.18	Alt. 1					
		etarded plastic parts >25g contain the following flame retardant substance ations above 0.1%:	s/preparations	in 🔀		
		ical name: Oligomeric phosphorous compound CAS #: confidential				
		ical name: CAS #:				
		ical name: CAS #:				
	4. Chem Alt. 2	ical name: , CAS #:				
		I specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
P7.19		parts > 25 g, flame retardant substances/preparations above 0,1% are used which		$\square$		
		I the following Risk phrases; <i>confidential</i> and Hazard statements: H411;H4 rce(s) for these classifications is/are found at (add URL(s)): European Court				
			icii Directive			
P7.20*	67/548/EEC , (See note B5) Postconsumer recycled plastic material content is used in the product (See Note B6):					
	a) Of t	it least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material conter	nt (calculated as	3		
	a pe or	ercentage of total plastic by weight) is				
		e weight of recycled material is <b>2.1</b> g.				
Model nu		82Ŭ0	Logo			
		1				

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 <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

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.

Issue date *	2022-3-18	lon		
Product environment	nental attributes - Market requirements (continued)	Requir	emer	nt met
Item		Yes	No	n.a.

	Material and su	ubstance requirements	(continued)					
P7.21*		c material content is use		NOTE B7):				
	If YES: at least	one of the two alternativ	es below shall be ansv	vered <sup>.</sup>				
	a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of							
	total plastic by weight) is 0 %.							
	or b) The weigh	t of the biobased plastic	material is q.					
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	Batteries							
P8.1*	Battery chemical composition: LI-ION Polymer battery and lithium-metal battery							
P9		nption (See NOTE B8)						
P9.1		the following power level Power level at	Power level at	Power level at	Reference/Standard for anormy			
Energy m		100 V AC	115 V AC	230 V AC	Reference/Standard for energy modes and test method *			
Peak (On	n-max)	65 W	65 W	65 W	Full load			
<u>Catego</u>	ory 2							
Short Idl	e State - WOL	3.56 W	3.56 W	3.75 W	ENERGY STAR Computers V8.0			
Enabled								
Long Idle Enabled	e State - WOL	1.58 W	1.59 W	1.61 W	ENERGY STAR Computers V8.0			
Sleen (S:	3) - WOL Enabled	0.49 W	0.50 W	0.51 W	ENERGY STAR Computers V8.0			
	·							
	WOL Enabled	0.37 W	0.38 W	0.38 W	ENERGY STAR Computers V8.0			
EPS No-le		0.108 W	0.108 W	0.108 W				
(External powe wall outlet but d	er supply / charger plugged in disconnected from the product	)						
PTEC *		W	W	W				
Typical El	nergy Consumptio	n <b>13.06</b> kWh/year	13.11 kWh/year	13.67 kWh/year	E <sub>TEC</sub> = (8760/1000) x (P <sub>off</sub> x 0.25			
	nergy Consumption		13.11 KWII/year	73.07 KWII/year	$E_{TEC} = (6760/1000) \times (P_{off} \times 0.25)$ + $P_{sleep} \times 0.35 + P_{long_idle} \times 0.10 + P_{short_idle} \times 0.30)$			
		Poff: Off Mode(S5) - V	/OL Enabled; P <sub>sleep</sub> : Slee	p Mode(S3) - WOL Enabl	led; P <sub>idle</sub> : Idle State - WOL Enabled			
External F	Power Supply Effic	iency Level (Internation	al Efficiency Marking P	rotocol) * : VI				
Display re	esolution * : 2.07 n	negapixels						
Default tir	me to enter energy	save mode: 10 minutes	3					
P9.2*	Information abo	ut the energy save func	tion is provided with the	e product.				
P9.3	Energy efficience	cy class (monitors only):						
P10	Emissions							
		n – Declared according	to ISO 9296 (See NOT					
P10.1	Mode	Mode description			hit A-weighted sound power level, $L_{WA,c}$ (B)			
	Idle	* Idle		* 2.5	<u>L</u>			
	Operation	* Operation		* 3.9				
	Other mode	Declared A-weighted sou	nd pressure level (dB) <sub>L pA</sub>	m 17.3 (operator pos	ition desktop – idle)			
	Other mode	Declared A-weighted sou	nd pressure level (dB) <sub>L <sub>p</sub>A</sub>	m 30.6 (operator pos	ition desktop – operating)			
	Measured acco		ECMA-74					
		Other	(only if not covered b	y 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 <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

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

Model nu	umber *	82U0			Logo	Long		
lssue da	te *	2022-3-18				Leno	VO.	I
Product	t environ	mental attribut	es - Market requirements	(continued)		Require		ne
Item						Yes	No r	n.a
		magnetic emiss						
P10.4			the requirement for low frequer <b>AC</b> adapter only)	ncy electromagnetic field	s of the following volunt	ary 🔀		
P12	Ergono	mics for compu	ting products					
P12.1*			gonomic requirements of ISO 9					
P12.2*	The phy	sical input device	e meets the requirements of ISC	) 9995 and ISO 9241-41	0.	$\boxtimes$		
P13	Packag	ing and docume	entation					_
P13.1*	Product Product Product Product	packaging mater packaging mater packaging mater packaging mater	rial type(s): <i>paper(manual)</i> rial type(s): <i>corner paper</i> weig	nt (kg): <b>0.093</b> 112				
P13.2*			ackaging is free from PVC.			$\boxtimes$		
P13.3*	For pro	duct primary cor	rugated fiberboard packaging, r content: 89.42 %	specify the contained p	percentage of minimun			
P13.4*	Specify		nd product documentation (tick	box):				
P13.5	Ùser an	, ,	is item if paper documentation entation on paper media is chlo	,		$\boxtimes$		
	Elemen	chlorine-free tal chlorine-free ed chlorine-free						
P14	Volunta	ry programs						
P14.1			equirements of the following vol	untary program(s):				
	Eco-lab Eco-lab	el:	Criteria version: <b>8.0</b> Criteria version: Criteria version:	Date: <b>2020/7/15</b> Date: Date:	Product category: 2 Product category: Product category:			
P15			(See NOTE B10)					
P9			f specific configuration may v					
	informat knowled	ion contained in lge available at th d here is approxir	o representations, guarantees, this document. All information p ne time of completion, and supp nate and provided for information	rovided by supplier in th lier shall have no obligat	is document is provided tion to update such info	based on supp rmation. The inf	olier's ormatio	n
P9	See Ene	ergy Star Qualifie	d Notebooks & Tablet Compute v/index.cfm?fuseaction=find_a					

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 S15 G3 ABA	Logo
Model number *	82U0	
Issue date *	2022-3-18	Lenovo
Additional information		

d)	Year of manufacture:				2022
e)	Etec value (kWh) per ErP Lot 3 Catego disabled and if the system is tested with				cards (dGfx) are
f)	Etec value (kWh) per ErP Lot 3 Categor enable	ry and capability adjust	ments applied when <b>a</b>	II discrete graphics	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)
	Memory over base [GB]	16			
ents sting	Additional internal storage	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
capability adjustments applied during testing	Discrete television tuner	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
ability a lied du	Discrete Audio Card	<mark>No</mark> (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
app	Discrete graphics Card(s) [number / #]	No #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)
	Category of discrete graphics Card(s)				
sults	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	10.23			
Test results	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled				
g)	Idle state power demand (Watts);	L	I		2.95
ו)	Sleep mode power demand (Watts);				0.55
)	Sleep mode with WOL enabled power d	emand (Watts) (where	enabled);		0.55
)	Off mode power demand (Watts);				0.38
<)	Off mode with WOL enabled power dem	and (Watts) (where en	abled);		0.38
)	Internal power supply efficiency at 10 %	, 20 %, 50 % and 100 %	% of rated output pow	er (if applicable):	
	10% 20% 50%	100% Avera	ige		
n)	External power supply efficiency (if appli	cable)*:			
	Average active efficiency: <b>88.20%</b> , <b>89.3</b> *internal note: show values for all available external p		89.71%, 90.15%, 90.0	02%, 90.44%, 89.71%	, 90.15%, 90.02%
o)	Minimum number of loading cycles that		and (applies only to n	otebook computers):	300CYCLES
o-1)	Measurement methodology used to dete	ermine information mer <b>NA</b>	tioned in points (I) – ii	nternal PSU efficiency	
p-2)	Measurement methodology used to dete	ermine information mer 63:2011 measuremen		external PSU efficience	cy:

(p-3)	Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: EN 50563:2011 measurement methodology					
(p-4)	Measurement metho power as defined in	dology used to determine information mentioned in r Point P9.1 in the Product IT Eco Declaration:	naximum, idle, sleep, off mode			
		EN 62623:2013 measurement methodo	blogy			
(q)	Sequence of steps for	or achieving a stable condition with respect to power	demand::			
		EN 62623:2013 measurement methodo	blogy			
(r)	Description of how s	leep and/or off mode was selected or programmed:				
		EN 62623:2013 measurement methodo	blogy			
(s)		required to reach the mode where the equipment au wer management, 30mins automatically reaches				
(t)		te condition before the computer automatically re- s not exceed the applicable power demand requirement		30		
(u)	Length of time after	r a period of user inactivity in which the compute ver power demand requirement than sleep mode (in	r automatically reaches a power	NA		
(v)	Length of time befo	re the display sleep mode is set to activate after	user inactivity (in minutes):	10		
(w)	Information on the er	nergy-saving potential of power management functio	nality:			
	User informatior	n described in User Guide and Power Manager un programs	der Lenovo Vantage menu in all			
(x)	User information on	how to enable the power management functionality:				
	User informatior	n described in User Guide and Power Manager un programs	der Lenovo Vantage menu in all			
(z)		measurements: — test voltage in V and frequency in system, — information and documentation on the in sting:				
		230V, 50GHz, Total Harmonic Distortion	ז <2 %			
Additio	nal Notebook Batter	v Information:				
		Battery[ies] not 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					
External	/detachable Battery					
Bios Bao	ckup Battery					
Other:						
Addition	al information		·	•		
) he battervlie:	s] in this product cannot be e	asily replaced by users themselves.				
Акумулаторна	ата[ите] батерия[и] в този п	родукт не може да се замени[ят] лесно от самите потребител er sustituidas fácilmente por los propios usuarios.	и.			
/ýměnu bater	ie/baterií v tomto výrobku by	neměli provádět sami uživatelé.				
)er Akku/die A	Akkus dieses Produkts kann/	teriet/batterierne i dette produkt. können nicht ohne weiteres vom Benutzer selbst ausgetauscht w	verden.			
	aa selle toote akut/akusid ise ς] στο προϊόν αυτό δεν μπορ	e hõlpsasti asendada. ιούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες				
	(s présente(s) dans ce produ ože lako zamijeniti Bateriju sa	it ne peuvent être facilement remplacée(s) par les utilisateurs eu	x-mêmes.			
a batteria/le l	batterie in questo prodotto no	n può/possono essere facilmente sostituita/e dall'utente.				
Sio gaminio ba	ievar nomainīt šā ražojuma a aterijos [baterijų] pats vartoto	jas negali lengvai pakeisti.				
		elhasználó nem tudja egyedül egyszerűen kicserélni. ′jistgħux tiġi/jiġu sostitwita/i mill-utenti stess.				
	i dette produktet kan ikke let	t erstattes av brukerne selv. e gebruiker niet gemakkelijk vervangbaar.				
Jżytkownik nie	e może sam w łatwy sposób	wymienić baterii w tym produkcie.				
Bateria (bateri	ile) din acest produs nu poat	ser facilmente substituídas pelos próprios utilizadores. e (pot) fi ușor înlocuită (înlocuite) de utilizatorii înșiși.				
	omto výrobku nemôže vymie v tem izdelku uporabniki sal	ňať používateľ. ni ne morejo zlahka zamenjati.				
Fämän tuottee		osti käyttäjän vaihdettavissa.				
		ndan kolaylıkla değiştirilemez.				