

Product environmental attributes - THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable).

Additional information regarding each item may be found under P14.

Brand *	Lenovo Logo			
Company name *	Lenovo			
Contact information *	Lenovo Global Environmental Affairs Alvin L Carter 1009 Think Place Building 2 / 5F1 Morrisville, North Carolina 27560 alcarter@lenovo.com			
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment.html			
Additional information	The latest version of this document can be found at http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks.html			

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 PC				
Commercial name *	Lenovo G50-30				
Model number *	20418;80G0				
Issue date *	2015-01-14				
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.

Quality Control			nt met
Item		Yes	No
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration		
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	20418;80G0	20418;80G0		
Issue date *	2015-01-14		Logo	lenovo.

Product	duct environmental attributes - Legal requirements				
Item		Yes	No	n.a.	
P1	Hazardous substances and preparations				
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromiur 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)				
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.				
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),	\boxtimes	П		
	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 terphenyl (PCT) in preparations (see legal reference).	\boxtimes			
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).	\boxtimes			
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS),			\square	
	Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.				
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)				
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as			\boxtimes	
	pentachlorophenol and derivatives (see legal reference).				
D4 0*	Comment: Legal reference has no maximum concentration values.		_	_	
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm ² /week (see legal reference).		Ш	Ш	
	Comment: Max limit in legal reference when tested according to EN1811:1998.				
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):	\boxtimes			
	http://www.lenovo.com/social_responsibility/us/en/materials.html				
P2	Batteries				
P2.1*	.1* If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)		Ш	Ш	
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	\boxtimes			
P2.3*					
P3	Safety, EMC connection to the telephone network and labeling				
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	\boxtimes			
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	\boxtimes			
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).				
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	\square			
P4	Consumable materials				
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).				
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			\boxtimes	
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).				
P5	Product packaging				
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium and hexavalent chromium by weight of these together.				
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	\boxtimes			
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.				

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

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Produc	t environmental attributes - Market requirements - Environmental conscious design	equire	ment	met	
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.	
P6	Treatment information				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\boxtimes			
P7	Design				
D7 1*	Disassembly, recycling Parts that have to be treated separately are easily separable				
P7.1*				뿌	
P7.2*	Plastic materials in covers/housing have no surface coating.	_ <u>_</u> _		Щ	
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.				
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.	\boxtimes			
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	\boxtimes			
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	\boxtimes			
	Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	\boxtimes			
P7.8*	Upgrading can be done using commonly available tools	\boxtimes			
P7.9.	Spare parts are available after end of production for: 5 years			\blacksquare	
P7.10	Service is available after end of production for: 5 years	-		币	
	Material and substance requirements				
P7.11*	Product cover/housing material type:				
	Material type: PC+ABS-FR(40) Material type: Material type:				
P7.12	Electrical cable insulation materials of power cables are PVC free.		\boxtimes		
P7.13	Electrical cable insulation materials of signal cables are PVC free		\boxtimes		
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	\boxtimes			
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See			币	
	Note B2)				
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4: Marking: FR(40)				
P7.17	Alt. 1				
	Chemical specifications of flame retardants in printed circuit boards >25g (without components):				
	TBBPA (additive) , TBBPA (reactive) , Other; chemical name: , CAS #:				
	Alt. 2				
	Chemical specifications of flame retardants in printed circuit boards (without components) >25g according				
	ISO 1043-4: Brominated Epoxy Resin See P14				
P7.18	Alt. 1				
	Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in				
	concentrations above 0.1%:				
	Comment: No legal limits exist, this is a market requirement.				
	1. Chemical name: , CAS #: 2. Chemical name: , CAS #:				
	3. Chemical name: , CAS #:				
	Alt. 2				
	Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
·-	FR(40)	<u> </u>	Щ.	뿌	
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	Ш	Ш	Ш	
P7.20	Of total plastic parts' weight >25g, recycled material content is 2.7%.	_			
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.				
P7.22	Light sources are free from mercury	\boxtimes			
P8	If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg Batteries and max. mercury content per lamp: mg				
P8.1*	Battery chemical composition: Lithium Ion/Lithium Manganese Dioxide				
P8.2	Batteries meet the requirements of the following voluntary program/s: US RBRC			₩	
1 0.4	Dationed moot the requirements of the following voluntary program/s. V3 NDNC			1 1	

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

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	oduct environmental attributes - Market requirements (continued) Requirement met						
					Yes No	n.a.	
	ergy consumption the product the follow	ving power levels or	energy consumpt	ions are reporte	d: See P14		
Energy mode *		Power level at 100 V AC		•		ergy modes and test	
Peak (On-max))	65 W	65 W	65 W	Full load		
Category I1	/2/3						
Short Idle State	te - WOL Enabled	7.234 W	7.665 W	7.871 W	Use for ENERGY STAR V6	registration (P _{idle})	
Long Idle State	e - WOL Enabled	3.689 W	4.870 W	4.135 W	Use for ENERGY STAR V6	registration (P _{idle})	
Sleep (S3) - W	OL Enabled	0.368 W	0.386 W	0.379 W	Use for ENERGY STAR V6	registration(P _{sleep})	
Sleep (S3) - Wo	OL Disabled	0.368 W	0.386 W	0.379 W	Reference		
Off (S5) - WOL	. Enabled	0.215 W	0.224 W	0.242 W	Use for ENERGY STAR V6	registration(P _{off})	
Off (S5) - WOL	. Disabled	0.215 W	0.224 W	0.242 W	Use for EuP		
Category D	1/2		<u> </u>	<u> </u>	<u> </u>		
Short Idle State	te - WOL Enabled	NA W	NA W	NA W	Use for ENERGY STAR V6	registration (P _{idle})	
Long Idle State	e - WOL Enabled	NA W	NA W	NA W	Use for ENERGY STAR V6	registration (P _{idle})	
Sleep (S3) - W	OL Enabled	NA W	NA W	NA W	Use for ENERGY STAR V6	registration (P _{sleep})	
Sleep (S3) - Wo	OL Disabled	NA W	NA W	NA W	Reference		
Off (S5) - WOL	. Enabled	NA W	NA W	NA W	Use for ENERGY STAR V6	registration(P _{off})	市
Off (S5) - WOL	. Disabled	NA W	NA W	NA W	Use for EuP		Ħ
EPS No-load		0.076 W	0.076 W	0.081 W			$\vdash \Box$
plugged in the v	r supply / charger wall outlet but om the product.)						
PTEC * Typical Energy	Consumption	W	W	W			
TEC * Typical Energy	Consumption	kWh/week	kWh/week	kWh/week			
ETEC * Annual Energy	Consumption	24.01 kWh/year	25.05 kWh/year	26.00 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0) + P_{short idle} \times 0.3 + P_{long idle} \times 0$	0.25 + P _{sleep} x 0.35 0.1)	
			l WOL Enabled; P _{slee}	: Sleep Mode(S3)) - WOL Enabled; P _{idle} : Idle State	e - WOL Enabled	
Display resolution	on* : 1280*800 Mega	apixels					
Print Speed *	: Image	es per minute					
Default time to	enter energy save mo	ode: 25 minutes					
P9.2* Info	ormation about the end	ergy save function is	s provided with the	e product.	<u> </u>		
ENE	e product meets the ele ERGY STAR® versioners specify: <i>Energy</i> \$	n: Version 6.0 Tie	er: Produ	ict category: 11/2	/3		Н
P10 Emissions Noise emission – Declared according to ISO 9296							
P10.1 Mod		description	J 9290	Declared	Declared A-v	weighted	
		•		A-weighted	sound pressure lev		
				sound power level $L_{W\!Ad}$		Bystander positions	
				Jordi Z _W Ad	Desktop X	, , , , , , , , , , , , , , , , , ,	
					or Desk side	(only if product is not operator attended)	
Idle	* HD	D:Idle		* 2.48	20.7	,	
		D: Operating		* 2.59	20.3		
l ———	ner mode	N 1907770 N 50	`NA 74		Energy Star for Extern	ai Power Supplies	-
Measured according to: ISO7779 ECMA-74 Other (only if not covered by ECMA-74 with L _{pAm} measurement distance m)							

P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:	
P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:	

Model nu	mber *	20418;80G0 20418;80G0					
Issue dat	e *		Logo	leno	/O .		
Product	environr	nental attributes - Market requirements (continued)		Require	ment	met	
Item		· · · · · ·		Yes	No	n.a.	
	Chemic	al emissions from printing products					
P10.3*	Test per	formed according to ECMA-328 (ISO/IEC 28360) standard, other specify:				\boxtimes	
P10.4	•	emission rate (print phase) is (mg/h):					
	• •	Dust Ozone Styrene Benzene TVOC					
P10.5		al emission requirements of the following voluntary program/s are met for :				X	
			rvoc 🗌				
	Electror	nagnetic emissions					
P10.6	Compute	er display meets the requirement for low frequency electromagnetic fields of the follo	wing voluntary		П	П	
		/s: MPR-II					
P11		nable materials for printing products					
P11.1*	-	Data Sheet (SDS) is available for the ink/toner preparation, even if not legally requi	,			\boxtimes	
P11.2*	EN1228		e requirements	of			
P11.3*	2-sided	(duplex) printing/copying is an integrated product function.				\boxtimes	
P12	Ergonomics for computing products						
P12.1*	The disp	lay meets the ergonomic requirements of ISO 9241-307 for visual display technolog	ies.	\boxtimes			
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.						
P13	Packagi	ng and documentation					
P13.1*	Product Product Product	packaging material type(s): Corrugated Carton weight (kg): 0.359 packaging material type(s): Polyethylene Cushions weight (kg): 0.106 packaging material type(s): Others weight (kg): 0.230					
P13.2*	Product	plastic packaging is free from PVC.		\boxtimes			
P13.3*		media for user and product documentation (tick box):					
	Electron	ic ⊠, Paper ⊠, Other □					
P13.4*	fiber: 0		sumer recycled				
P14		nal information (See Note B4)					
	informati knowled provided informati		is provided bas e such informati	ed on supp on. The inf	lier's ormat	ion	
P9		ergy Star Qualified Notebooks & Tablet Computers for the latest information: ww.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup	&pgw_code=C()			

Note B4: 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 B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2,3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19

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 G50-30	Logo
Model Number	20418;80G0	_
Issue Date	2015-01-14	lenovo.
Additional information		

P/.I.I	Product environmental attributes					
(d)	year of manufacture: 2014					
(e)	E TEC 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:					
	Category (according to ErP Lot 3): A Etec: 13.72					
(f)	E TEC value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics car enabled:	ds (dGfx) are				
	Category (according to ErP Lot 3): B Etec: 13.47					
(g)	idle state power demand (Watts);	4.49				
(h)	sleep mode power demand (Watts);	0.47				
(i)	sleep mode with WOL enabled power demand (Watts) (where enabled);					
(j)	off mode power demand (Watts);	0.26				
(k)	off mode with WOL enabled power demand (Watts) (where enabled);	0.26				
(I)	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*: 45W:87.58%,87.60%,88.32%; 65W:89.18%,89.04%,89.92%					
(o)	*internal note: show values for all available external power supplies the minimum number of loading cycles that the batteries can withstand (applies only to notebook computers):	300cycles				
(p-1)	the measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency:					
	NA NA					
(p-2)	the measurement methodology used to determine information mentioned in points (m) – external PSU efficiency:					
	Energy-star requirement					

(p-3)	the measurement methodology used to determine information mentioned in points (o) – loadingcycles batteries:							
			IEC	61960 measurement methodology				
(p-4)	the 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:							
				Energy-star requirement				
(q)	sequence of steps for achieving a stable condition with respect to power demand::							
				Based on user manual				
(r)	description of how sleep and/or off mode was selected or programmed:							
				Based on user manual				
(s)	sequence of mode:	of events required to	reach th	ne mode where the equipment automatically changes to sleep and/or				
				Based on user manual				
(t)				efore the computer automatically reaches sleep mode, or another plicable power demand requirements for sleep mode (in minutes):	25			
(u)	(u) 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 (in minutes): NA							
(v)	the length	of time before the	display	sleep mode is set to activate after user inactivity (in minutes):	10			
(w)	(w) information on the energy-saving potential of power management functionality:							
				Based on user manual				
(x)	user inform	nation on how to ena	ble the p	ower management functionality:				
				Based on user manual				
(z)	electricity supply system, — information and documentation on the instrumentation, set-up and circuits used							
	for electrical testing: 230V/50Hz, Total Harmonic Distortion <2 %							
Addition N	lotebook Ba	attery Information:						
Yes		No	n/a	This notebook computer is operated by battery/ies that cannot be access by a non-professional user.	ssed and replaced			
` ,	not user	(Battery user		The battery[ies] in this product cannot be easily repla	acad by usars			
replaceable	e)	replaceable)		themselves	iceu by users			
Additional information								