

## 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.

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Company name *	Lenovo			
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Additional information	The latest version of this document can be found at http://www.lenovo.com/social_responsibility/us/en/datasheets_notebooks.html			

	pased on product specification or test results based obtained from sample testing), that the product ts given in this declaration.
Type of product *	Notebook PC
Commercial name *	Lenovo B50-30
Model number *	20382; 80ES
Issue date *	2015-01-16
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	Requireme	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 *	20382; 80ES		
Issue date *	2015-01-16	Logo	lenovo.

Product	environmental attributes - Legal requirements	Require	ment	met
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 chromium, 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),	$\boxtimes$		
	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), 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 pentachlorophenol and derivatives (see legal reference).  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/cm²/week (see legal reference).  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):  http://www.lenovo.com/social_responsibility/us/en/materials.html			
<b>P2</b> P2.1*	Batteries  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)			
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*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference)			
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).		╁	一一
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).	$\boxtimes$		
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).			$\square$
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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Product	environmental attributes - Market requirements - Environmental conscious design Re	quire	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			
D7.4*	Disassembly, recycling			_
P7.1*	Parts that have to be treated separately are easily separable			<u> </u>
P7.2*	Plastic materials in covers/housing have no surface coating.		$\boxtimes$	
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			
P7.10	Service is available after end of production for: 5 years			
	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 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)			
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)			
P7.20	Of total plastic parts' weight >25g, recycled material content is 5.28%.			
P7.21	Of total plastic parts' weight >25g, biobased material content is <b>0</b> %.			
P7.22	Light sources are free from mercury  If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg			
P8	If mercury is used specify: Number of lamps: and max. mercury content per lamp: mg  Batteries 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			$\dashv$

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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	Product environmental attributes - Market requirements (continued) Requirement met						
Item P9	Energy consump	tion				Yes N	o n.a.
9.1		e following power levels or	energy consumpt	ions are reporte	d: <b>See P14</b>		
Energy mo		Power level at	Power level at	Power level at	Reference / Sta	andard for energy modes and te	st
Book (On )		100 V AC	115 V AC	230 V AC	method *		
Peak (On-I		45 W	<b>45</b> W	<b>45</b> W	Full load		
Categor			I = 04.144	I a aa aa		OV 071010	
	State - WOL Enab		7.21 W	6.96 W		GY STAR V6 registration (P <sub>idle</sub> )	
	State - WOL Enabl		4.81 W	4.75 W		GY STAR V6 registration (Pidle)	
	- WOL Enabled	0.52 W	0.51 W	<b>0.51</b> W		GY STAR V6 registration(P <sub>sleep</sub> )	]
	- WOL Disabled	0.52 W	0.51 W	<b>0.51</b> W	Reference		
	WOL Enabled	0.33 W	0.32 W	0.33 W		GY STAR V6 registration(P <sub>off</sub> )	
	WOL Disabled	<b>0.333</b> W	<b>0.335</b> W	0.380 W	Use for EuP		
Categor	y D 1/2						
Short Idle	State - WOL Enab	led W	W	W		GY STAR V6 registration (Pidle)	
Long Idle	State - WOL Enabl	ed W	W	W	Use for ENERG	GY STAR V6 registration (Pidle)	
Sleep (S3)	- WOL Enabled	W	W	W	Use for ENERO	GY STAR V6 registration (Psleep	)
Sleep (S3)	- WOL Disabled	W	W	W	Reference		
Off (S5) - V	VOL Enabled	W	W	W	Use for ENERG	GY STAR V6 registration(Poff)	
Off (S5) - V	VOL Disabled	W	W	W	W Use for EuP		
EPS No-load 0.085 W 0.087 W 0.131 W							
	ower supply / charg	er					
plugged in the wall outlet but disconnected from the product.)							
PTEC *	ergy Consumption	W	W	W			
Typical Elic	ergy Consumption						
TEC *							$\top$
Typical En	ergy Consumption	kWh/week	kWh/week	kWh/week			
ETEC *		<b>24.92</b> kWh/year	25.42	24.76	F=== (8760/10	000) x (P <sub>off</sub> x 0.25 + P <sub>sleep</sub> x 0.35	j 🔲
-	ergy Consumption	24.32 KWII/yCai	kWh/year	kWh/year		$B+P_{long\ idle} \times 0.1$	
Dienlay rec	olution* : 1366*76		WOL Enabled; P <sub>slee</sub>	<sub>p</sub> : Sleep Mode(S3)	- WOL Enabled;	P <sub>idle</sub> : Idle State - WOL Enabled	$\vdash$
Print Speed		Images per minute					
		ive mode: 25 minutes					<u> </u>
P9.2*		the energy save function is	•				<u> </u>
P9.3*		the energy requirements version: <b>Version 6.0</b> Tie		oluntary program uct category: B	s:	МГ	- n
	Others specify:						<u> </u>
P10	Emissions Noise emission	Doclared according to ISI	O 0206				
P10.1		Declared according to IS Mode description	0 3230	Declared		Declared A-weighted	
		•		A-weighted	l sound	I pressure level $L_{p{\sf Am}}$ (dB)	
				sound power level $L_{W\!Ad}$	7'		าร
				- WAd	,	sktop 🔀	
					or Desi	· — I (only if product is n	
	Idle	HDD:Idle		* 3.0		25.7	
	Operation '	HDD: Operating		* 3.1		26.2	
	Other mode						
	Measured according		CMA-74	d by FOMA 74	th l	ment distance	
P10.2	The product meets		only if not covered			ement distance m)	
	P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:						

Model number *	20382; 80ES		
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	Product environmental attributes - Market requirements (continued) Requirement met							
Item P9	Energy consump	tion				Ye	s No	n.a.
9.1		e following power levels or	energy consumpt	ions are reporte	d: See P	14		
Energy mod						ice / Standard for energy modes	and test	
Peak (On-i	max)	45 W	45 W	45 W	Full lo			
Category								
	<del>y 12</del> State - WOL Enabl	led 7.94 W	8.01 W	8.10 W	Use for	ENERGY STAR V6 registration	(Pidlo)	
	State - WOL Enabl		4.90 W	5.39 W		ENERGY STAR V6 registration		
	- WOL Enabled	0.61 W	0.60 W	0.61 W		ENERGY STAR V6 registration		
	- WOL Disabled	0.61 W	0.60 W	0.61 W	Referen		- (- sieep)	
	VOL Enabled	0.43 W	0.42 W	<b>0.45</b> W		ENERGY STAR V6 registration	I(P <sub>off</sub> )	
	VOL Disabled	0.333 W	0.335 W	0.380 W	Use for			
Category					<u> </u>			_
	State - WOL Enabl	led W	W	W	Use for	ENERGY STAR V6 registration	(P <sub>idle</sub> )	
Long Idle	State - WOL Enabl	ed W	W	W		ENERGY STAR V6 registration		
	- WOL Enabled	W	W	W		ENERGY STAR V6 registration		
	- WOL Disabled	W	W	W	Referen		(- 3/eep)	╁┼
	VOL Enabled	W	W	W		ENERGY STAR V6 registration	n(P <sub>off</sub> )	H
	VOL Disabled	W	W	W				H
EPS No-loa		0.085 W 0.087 W 0.131 W					H	
(External power supply / charger plugged in the wall outlet but disconnected from the product.)								
PTEC * Typical Energy Consumption		W	W	W				
TEC * Typical Energy Consumption		kWh/week	kWh/week	kWh/week				
ETEC * Annual Energy Consumption		28.17 kWh/year	<b>28.10</b> kWh/year	<b>28.88</b> kWh/year		8760/1000) x (P <sub>off</sub> x 0.25 + P <sub>sleep</sub> <sub>idle</sub> x 0.3+ P <sub>long idle</sub> x 0.1)	x 0.35	
		P: Off Mode(\$5) -	WOL Fnabled: P	: Sleen Mode(\$3)	- WOL FI	nabled; P <sub>idle</sub> : Idle State - WOL Enab	led	
Display res	olution* : 1366*768		VVOL Errabica, 1 slee	p. Olecp Mode(Oo)	/ - WOL E	iddied, Fidie. Idie Gtate - WGE Eliab		
Print Speed	<b>1</b> * :	Images per minute						
Default time		ive mode: 25 minutes						
P9.2*		the energy save function i	s provided with the	e product.			1	╁
P9.3*	ENERGY STAR®	the energy requirements version: <i>Version 6.0</i> Ties		oluntary program oct category: B	/s:			<u> </u>
P10	Others specify: Emissions							
	Noise emission -	Declared according to IS	O 9296					
P10.1	Mode	Mode description		Declared A-weighted		Declared A-weighted sound pressure level $L_{p\mathrm{Am}}$ (d	D)	
				sound power	er			
				level $L_{WAd}$	(B) Ope	Bystander p	ositions	
						or Desk side (only if produ		
	Idle *	HDD:Idle		* 3.0		operator a	ttended)	-
	Operation *	HDD: Operating		* 3.1		26.2		1 H
	Other mode							] _
	Measured according		MA-74					
P10.2	The product mosts					neasurement distance m	ı)	
P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:								

Model number *	20382; 80ES		
Issue date *	2015-01-16	Logo	lenovo.

Product environmental attributes - Market requirements (continued) Requirement					t	
					Yes No	n.a.
<ul><li>P9 Energy consumption</li><li>9.1 For the product the following</li></ul>	wing nower levels or	energy consump	tions are reporte	d: See P14		
Energy mode *	Power level at				nodes and test	
Lifergy mode	100 V AC	115 V AC	230 V AC	method *	iodes and lest	
Peak (On-max)	45 W	45 W	45 W	Full load		
Category I3						•
Short Idle State - WOL Enabled	<b>7.92</b> W	7.49 W	7.72 W	Use for ENERGY STAR V6 regist	tration (P <sub>idle</sub> )	
Long Idle State - WOL Enabled	5.04 W	4.75 W	4.92 W	Use for ENERGY STAR V6 regist	tration (P <sub>idle</sub> )	
Sleep (S3) - WOL Enabled	0.60 W	0.59 W	0.61 W	Use for ENERGY STAR V6 regist	tration(P <sub>sleep</sub> )	
Sleep (S3) - WOL Disabled	0.60 W	0.59 W	0.61 W	Reference		
Off (S5) - WOL Enabled	0.42 W	<b>0.41</b> W	0.43 W	Use for ENERGY STAR V6 regist	tration(P <sub>off</sub> )	
Off (S5) - WOL Disabled	0.333 W	0.335 W	0.380 W	Use for EuP		
Category D 1/2	-	•	•			.1
Short Idle State - WOL Enabled	W	W	W	Use for ENERGY STAR V6 regist	tration (P <sub>idle</sub> )	
Long Idle State - WOL Enabled	W	W	W	Use for ENERGY STAR V6 regist	tration (P <sub>idle</sub> )	1
Sleep (S3) - WOL Enabled	W	W	W	Use for ENERGY STAR V6 regist	tration (P <sub>sleep</sub> )	
Sleep (S3) - WOL Disabled	W	W	W	Reference		
Off (S5) - WOL Enabled	W	W	W	Use for ENERGY STAR V6 regist	tration(P <sub>off</sub> )	
Off (S5) - WOL Disabled	W	W	W	Use for EuP		
EPS No-load	0.085 W	0.087 W	0.131 W			
(External power supply / charger plugged in the wall outlet but						
disconnected from the product.)						
PTEC * Typical Energy Consumption	W	W	W			Ш
, yproar Energy consumption						
TEC *	IAM/In face of the	1.10/h/	LAMP ( a la			
Typical Energy Consumption	kWh/week	kWh/week	kWh/week			
ETEC *	27.99 kWh/year	26.55	27.41	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.25 +$	P <sub>sleep</sub> x 0.35	
Annual Energy Consumption		kWh/year	kWh/year	+ P <sub>short idle</sub> x 0.3+ P <sub>long idle</sub> x 0.1)		
	P.u: Off Mode(\$5) -	WOL Enabled: P	: Sleen Mode(S3)	- WOL Enabled; P <sub>idle</sub> : Idle State - WOI	L Enabled	+
Display resolution* : 1366*768 Meg		siee siee	,p. 0.00p 000(00)	and the state of t		$\vdash$ $\sqcap$
	es per minute					
Default time to enter energy save m	ode: 25 minutes					
P9.2* Information about the er		s provided with the	e product.			╁
P9.3* The product meets the		<u> </u>	<u> </u>	/s:		
ENERGY STAR® version	•••		uct category: B			
Others specify: P10 Emissions						
Noise emission – Decl		O 9296				
P10.1 Mode Mode	description		Declared	Declared A-weight		
			A-weighted sound power	er sound pressure lever $L_p$		
			level $L_{W\!Ad}$ (	D)   -	ander positions	
				Desktop (only if	f product is not	
1.11	ND 144-		* 6 6	oper	rator attended)	
	DD:Idle DD: Operating		* 3.0 * 3.1	25.7 26.2		1
Other mode	ob. Operaully		3.1	20.2		┧╙
Measured according to: SISO7779 ECMA-74					1	
	Other	only if not covered		ith L <sub>pAm</sub> measurement distance	m)	
P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:						

Model nu	mber *	20382; 80ES				
Issue date *			Logo	leno	VO.	
Product	environn	nental attributes - Market requirements (continued)		Require	ment	me
Item				Yes	No	n.a
	Chemica	al emissions from printing products				
P10.3*	Test per	formed according to ECMA-328 (ISO/IEC 28360) standard, other specify:				$\overline{}$
P10.4	Typical e	emission rate (print phase) is (mg/h):				X
		Dust Ozone Styrene Benzene TVOC				
P10.5	Chemica	al emission requirements of the following voluntary program/s are met for :				X
		Oust Ozone Styrene Benzene	VOC 🗌	_		
	Electron	nagnetic emissions				
P10.6		er display meets the requirement for low frequency electromagnetic fields of the follo /s: MPR-II	wing voluntary			
P11	Consum	nable materials for printing products				
P11.1*	A Safety	Data Sheet (SDS) is available for the ink/toner preparation, even if not legally require	red (see P4.3).			$\boxtimes$
P11.2*	Paper co EN1228	ontaining post-consumer recycled fibers can be used, provided that it meets the 1.	requirements	of		X
P11.3*	2-sided (	(duplex) printing/copying is an integrated product function.				X
P12	Ergonor	nics for computing products				
P12.1*	The disp	lay meets the ergonomic requirements of ISO 9241-307 for visual display technolog	es.	$\boxtimes$		
P12.2*	The phys	sical input device meets the requirements of ISO 9995 and ISO 9241-410.		$\boxtimes$		
P13	Packagi	ng and documentation		_		_
P13.1*	Product	packaging material type(s): Corrugated Carton weight (kg): 0.336 packaging material type(s): Polyethylene Cushions weight (kg): 0.070 packaging material type(s): Others weight (kg): 0.123				
P13.2*	Product	plastic packaging is free from PVC.		$\boxtimes$		
P13.3*	Specify r	media for user and product documentation (tick box):				Т
	Electron	ic ⊠, Paper ⊠, Other □				
P13.4*	For pape fiber: 0	er user and product documentation, please specify contained percentage of post-cor %	sumer recycled			
P14		nal information (See Note B4)				
	informati knowled	Supplier makes no representations, guarantees, assurances or warranties whether e on contained in this document. All information provided by supplier in this document ge available at the time of completion, and supplier shall have no obligation to updat here is approximate and provided for informational purposes only. See a Lenovo Action.	is provided bas e such informati	ed on suppon. The inf	olier's format	iion
P9		ergy Star Qualified Notebooks & Tablet Computers for the latest information: ww.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup	&pgw_code=C0	)		
· ·	·			·		

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 B50-30	Logo
Model Number	20382, 80ES	_
Issue Date	2015-01-16	lenovo.
Additional information		

	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: 19.03					
(f)	E TEC value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are enabled:  Category (according to ErP Lot 3): B Etec: 17.49					
(g)	idle state power demand (Watts);	5.56				
(h)	sleep mode power demand (Watts);	0.64				
(i)	sleep mode with WOL enabled power demand (Watts) (where enabled);	NA				
(j)	off mode power demand (Watts);	0.44				
(k)	off mode with WOL enabled power demand (Watts) (where enabled);	NA				
(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 45W: 87.58%,87.60%,88.32%;					
	*internal note: show values for all available external power supplies					
(0)	the minimum number of loading cycles that the batteries can withstand (applies only to notebook computers): 300 cycles					
(p-1)	the measurement methodology used to determine information mentioned in points (I) – internal PSU					
	efficiency:					
(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:					
, A	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	ng a stable o	condition with respect to power demand::		
			Based on user manual		
(r) descriptio	n of how sleep and/	or off mode	was selected or programmed:		
			Based on user manual		
	sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:				
			Based on user manual		
condition	which does not exce	ed the appli	the computer automatically reaches sleep mode, or another icable power demand requirements for sleep mode (in minutes):	25	
			activity in which the computer automatically reaches a power mode ent than sleep mode (in minutes):	NA	
			mode is set to activate after user inactivity (in minutes):	10	
(w) information	n on the energy-sav	ring potentia	I of power management functionality:		
			Based on user manual		
(x) user infor	mation on how to en	able the pov	wer management functionality:		
			Based on user manual		
electricity			t voltage in V and frequency in Hz, — total harmonic distortion of the nd documentation on the instrumentation, set-up and circuits used		
		230V/50H	Iz, Total Harmonic Distortion <2 %		
Addition Notebook B	attery Information:				
Yes	No	n/a	This notebook computer is operated by battery/ies that cannot replaced by a non-professional user.	be accessed and	
(Battery <b>not</b> user replaceable)	(Battery user replaceable)		The battery[ies] in this product cannot be easily users themselves	y replaced by	
			users themselves		
Additional information	n				