

ECMA/TC38-TG3/2015/026 (Rev. 1 – 15 April 2017)

### Annex B2 - Product environmental attributes Desktop/All-in-One Computers

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 *	Lenovo Global Environmental Affairs		Lenovo	
e-mail address	Alvin L Carter		LEI IOVO.	
	alcarter@lenovo.com			
Internet site *	https://www.lenovo.com/us/en/sustainability-resources/			
Additional information	tion 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 *	All in One Computer						
Commercial name *	ThinkCentre neo 50a 24 Gen 4						
Model number *	12K7,12K8,12K9,12KA,12KB,12KD,12KC,12KE						
Issue date *	2022.12.20						
Intended market *	🔀 Global 📃 Europe 🗌 Asia, Pacific & Japan 🗌 Americas 🗌 Other						
Additional information	Low blue light;Flicker Free;Energy Star (12K9,12KA,12KD,12KE) ;EPEAT Silver (						
	12K9,12KA,12KD,12KE)						

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 n	umber *	12K7,12K8,12K9,12KA,12KB,12KD,12KC,12KE			
lssue da	ite *	2022.12.20	Lenovo		Этн
	t enviror	mental attributes - Legal requirements	Require		
Item			Yes	No	n.a.
P1		ous substances and preparations			
P1.1*	Product	s do comply with current European RoHS Directive. (See legal reference and NOTE B1)	$\square$		
P1.2*	Comme	s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.	$\boxtimes$		
P1.3*					
P1.4*		s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated yl (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).				
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.				
P1.7*	REACH https://	$\boxtimes$			
P2	Batteries				
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*	Batterie referenc	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See lega	I 🛛		
P2.3*	Batterie	and accumulators are readily removable. (See legal reference)	$\square$		
P3	Confor	nity verification & Eco design (ErP)			
P3.1*	The pro The Dec https://	duct is CE-marked to show conformance with applicable legal requirements (see legal reference). claration of Conformity can be requested at: www.lenovo.com/us/en/compliance/eu-doc for tps://www.lenovo.com/us/en/compliance/uk-doc for UK			
P3.2*		duct complies with the Eco design requirements for energy-related products,	$\square$		
		al reference).			
	Require	d information is; 🛛 🛛 given in item P15 or added to this document,	$\square$		
		available at: https://www.lenovo.com/us/en/compliance/eco-			
	declara	tion			
P5		t packaging			
P5.1*	hexaval	ng and packaging components do not contain more than 0,01% lead, mercury, cadmium an ent chromium by weight of these together.			
P5.2*	used (se	kaging materials are marked with abbreviations and numbers indicating the nature of the material(see legal reference).			
P5.3*	(see leg	duct packaging material is free from ozone depleting substances as specified in the Montreal Protoc al reference). nt: Legal reference has no maximum concentration values.	ol 🔀		
P6		ent information			
P6.1*	Informed	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 *	12K7, 12K8, 12K9, 12KA, 12KB, 12KD, 12KC, 12KE			
lssue da	ite *	2022.12.20	Len	ovc	
Produc	- Enviro		Require	ment	met
Item		tory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P7		Disassembly, recycling			
P7.1*		t have to be treated separately are easily separable	$\square$		
P7.2*	Plastic m	aterials in covers/housing have no surface coating.	$\boxtimes$		
P7.3*	Plastic p	arts > 100 g consist of one material or of easily separable materials.	$\square$		
P7.4*	Plastic p	arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	$\square$		
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly available tools.		Π	
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).			
	Product	lifetime			
P7.7*	Upgradir	g can be done e.g. with processor, memory, cards or drives	$\square$		
P7.8*	Upgradir	g can be done using commonly available tools			
P7.9	Spare pa	rts are available after end of production for: 5 years			
P7.10	Service i	s available after end of production for: 5 years			
	Material	and substance requirements			
P7.11*	Material	cover/housing material type (e.g. plastics, metal, aluminum): type: ABS Material type: PC Material type: PC+ABS type: SGCC			
P7.12	Insulatio	n materials of external electrical cables are PVC free.		$\square$	
P7.13	Insulatio	n materials of internal electrical cables are PVC free.	Ē		
P7.14	weight (* polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% (000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing n 25% post-consumer recycled content.			
P7.15		ircuit boards, PCBs (without components) are low halogen: all 🗌 PCBs > 25 g 📃 are low halogen d in IEC 61249-2-21. (See 1NOTE B2)		$\boxtimes$	
P7.16	Marking:	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: >FR(40)<	$\square$		
P7.17	TBBF	nemical specifications of flame retardants in printed circuit boards > 25 g (without components): A (additive), TBBPA (reactive) (See NOTE B3), Other: <b>Bromine-containing epoxy resin</b> , 8928-70-1	$\boxtimes$		
		nemical specifications of flame retardants in printed circuit boards (without components) > 25 g g ISO 1043-4:			
P7.18	concentr 1. Chem 2. Chem	ame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in ations above 0,1%: cal name: , CAS #: (See NOTE B4) cal name: , CAS #: " cal name: , CAS #: "			
		nemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:>FR(40)<			
P7.19	In plastic	parts > 25 g according 130 1040-4			
	•				
P7.20*		ce(s) for these classifications is/are found at (add URL(s)): , (See note B5) sumer recycled plastic material content is used in the product (See Note B6):			
	Of total p percenta	t least one of the two alternatives below shall be answered; lastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a ge of total plastic by weight) is 61%. weight of recycled material is <b>793.2</b> g.			

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.

Model number *	12K7,12K8,12K9,12KA,12KB,12KD,12KC,12KE	Lenovo				
Issue date *	2022.12.20		Leiiovo			
Product environmental attributes - Market requirements (continued) Requirement met						

Item

	Material and su	bstance requirements	(continued)		
P7.21*		material content is use		NOTE B7):	
	-	ne of the two alternativ			
					ated as a percentage of
		by weight) is %.	, 1	Υ.	1 5
	or				
P7.22*		of the biobased plastic free from mercury, i.e		n	
11.22		d specify: Number of la		p. mum mercury content p	er lamp: mg
P8	Batteries		1	· · ·	
P8.1*	Battery chemical	composition: Lithium	Manganese Dioxide		
P9		ption (See NOTE B8)			
P9.1		he following power leve	els or energy consump		
Energy mo	ode *	Power level at	Power level at	Power level at	Reference/Standard for energy
Peak (On-	max)	100 V AC	115 V AC 87.32 W	230 V AC	modes and test method *
			07.02 11		, un loud
Categor	<u>y2</u>				
Short Idle	State - WOL	21.06W	21.42W	21.14W	ENERGY STAR Computers V8
Enabled					
Long Idle	State - WOL	2.19W	2.05W	2.175W	ENERGY STAR Computers V8
Enabled		2.1500	2.0000	2.17000	ENERGY STAR Computers Vo
Sleen (S2)	WOL Enchlad	2.19W	2.05W	2.175W	ENERGY STAR Computers V8
,	- WOL Enabled	-		-	
Off (S5) -	WOL Enabled	0.9W	0.88W	0.9W	ENERGY STAR Computers V8
EPS No-lo		W	W	W	
(External power : wall outlet but dis	supply / charger plugged in th connected from the product.)	e			
PTEC *		W	W	W	
	ergy Consumption			07.00114/1/	
ETEC *	ergy Consumption	67.53 kWh/year	67.32 kWh/year	67.22 kWh/year	E <sub>TEC</sub> = (8760/1000) x (P <sub>off</sub> x 0.45 + P <sub>sleep</sub> x 0.05 + P <sub>long Idle</sub> x 0.15+
	ergy consumption				$P_{\text{short Idle } X} 0.35)$
					L Enabled; Pidle: Idle State - WOL Enabled
	,	ency Level (Internationa	al Efficiency Marking F	Protocol) * :	
1	solution * : <b>2.07</b> me	• •			
Default tim	e to enter energy	save mode: <mark>10</mark> minutes			
P9.2*	Information about	t the energy save func	tion is provided with th	e product.	
P9.3	Energy efficiency	<pre>/ class (monitors only):</pre>			
P10	Emissions				·
		- Declared according	to ISO 9296 (See NOT		
P10.1	Mode	Mode description			nit A-weighted sound power level, $L_{WA,c}$ (B)
ļ	Idle	* HDD:Idle		* 2.6	
ļ	Operation	* HDD: Operating		* 3.5	
	Other mode	Declared A-weighted sou	nd pressure level (dB) $L_{ ho}$	Am 24 (operator positi	on desktop – idle)
	Other mode	Declared A-weighted sou	nd pressure level (dB) $L_{p}$	Am 19 (operator positi	on desktop – operating)
	Measured accord	ding to: 🔀 ISO 7779 [	ECMA-74		
		Other	(only if not covered b	oy ECMA-74)	

Yes No

n.a.

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

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

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

Model nu	imber *	12K7,12K8,12K9,	12KA,12KB,12KD,12KC,12KE		Logo			
Issue dat	te *	2022.12.20				Lend	JVO	TH
Product	environ	mental attributes	- Market requirements (co	ntinued)	•	Require	ement	t me
Item						Yes	No	n.a
		magnetic emission						
P10.4	program	n(s): CE,FCC,VCCI,0		lectromagnetic fields	s of the following volu	ntary 🔀		
P12		mics for computing						
P12.1*			omic requirements of ISO 9241				$\square$	
P12.2*	The phy	vsical input device me	eets the requirements of ISO 99	95 and ISO 9241-410	0.		$\times$	
P13	Packag	ing and documenta	ition					
P13.1*	Product Product Product	packaging material packaging material packaging material	type(s): Paper -Corrugated Dou type(s): Paper -Corrugated Dou type(s): Plastic - Solid EPE (so type(s): Plastic - Thermoforme	uble wall weight (kg lid Expanded polye	g): <b>0.196</b> e <b>thylene)</b> weight (kg	): <b>0.054</b>		
P13.2*	Product	plastic primary pack	aging is free from PVC.			$\square$		
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post- consumer recovered fiber content: 80 %							
P13.4*			product documentation (tick box) Other	:				
P13.5	Úser an		em if paper documentation used ation on paper media is chlorine					
	Elemen	chlorine-free tal chlorine-free ed chlorine-free						
P14		ary programs						
P14.1			rements of the following volunta	ry program(s):				
	Eco-lab Eco-lab Eco-lab	el: <i>Low blue light</i> el: <i>Flicker Free</i> el: <i>Energy Star</i> el: <i>Silver</i>	Criteria version: 2 <i>PfG 2383</i> Criteria version: 2 <i>PfG 1797</i> Criteria version: <i>8.0</i> Criteria version: <i>2019</i>	Date: 2022.12.30 Date: 2022.12.30 Date: 2022.11.28 Date: 2023.1.16	Product category: P Product category: P Product category: C Product category: A	ersonal Compu Computer		
P15		nal information (Se						
P9	Intel i7-	13700H/32G memo	ecific configuration may vary, ry/1TBHDD+1TBSSD/Switchat	ole GPU/180w				
	informa knowlec provideo informa	tion contained in this lge available at the ti d here is approximati tion.	epresentations, guarantees, assi document. All information provio me of completion, and supplier e and provided for informational	ded by supplier in thi shall have no obligati purposes only. See a	s document is provide ion to update such inf a Lenovo Account Re	ed based on sup ormation. The ir	plier's forma	
P9			otebooks & Tablet Computers for dex.cfm?fuseaction=find a pro-					

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	ThinkCentre neo 50a 24 Gen 4	Logo
Model Number	12K7,12K8,12K9,12KA,12KB,12KD,12KC,12KE	Lonovo
Issue Date	2022.12.20	Lenovo
Additional information Low blue light; Flicker Free; Energy Star (12K9; 12KA; 12KD; 12KE); EPEAT Silver ( 12K9; 12KA; 12KD; 12KE)		;EPEAT Silver(

d)	year of manufacture:				2022	
e)	Etec value (kWh) per ErP Lot 3 Categor disabled and if the system is tested with				cards (dGfx) are	
f)	Etec value (kWh) per ErP Lot 3 Categor enable	y and capability adjust	ments applied when	all 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 ting	Additional internal storage	(Yes / No)	(Yes / No)	(Yes / No)	Yes (Yes / No)	
capability adjustments applied during testing	Discrete television tuner	(Yes / No)	(Yes / No)	(Yes / No)	No (Yes / No)	
ability a lied du	Discrete Audio Card	(Yes / No)	(Yes / No)	(Yes / No)	No (Yes / No)	
app	Discrete graphics Card(s) [number / #]	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)	Yes #: 1 (Yes / No)	
	Category of discrete graphics Card(s)					
esults	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)					
Test results	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled				29.13	
g)	Idle state power demand (Watts);				6.804	
h)	Sleep mode power demand (Watts);				2.029	
i)	Sleep mode with WOL enabled power de	emand (Watts) (where	enabled);		2.175	
j)	Off mode power demand (Watts);				0.822	
k)	Off mode with WOL enabled power dem	and (Watts) (where en	abled);		0.9	
[])	Internal power supply efficiency at 10 %,	, 20 %, 50 % and 100 9	% of rated output pov	ver (if applicable):		
	10% 84.78% 20% 89.71% 50% 92.07% 100% 92.31% Average 91.36% PA-1181-01 180W					
	10% 88.38% 20% 90.29% 50% 93.2	2 <mark>3%</mark> 100% 92.68%	Average 92.06% H	KF1801-3D 180W		
m)	External power supply efficiency (if appli	cable)*:				
	Average active efficiency:					
	*internal note: show values for all available external p	ower supplies				

(p-1)	Measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency:	
	80 PLUS® Certified Power Supplies	
p-2)	Measurement methodology used to determine information mentioned in points (m) – external PSU	
	efficiency: N/A	
(p-3)	Measurement methodology used to determine information mentioned in points (o) - loading cycles	
	batteries: N/A	
(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:	
	refer to IEC62623:2013-Desktop and notebook computers-Measurement of energy consumption	
(q)	Sequence of steps for achieving a stable condition with respect to power demand:	
	Based on user manual/Power on->Wait 5 minutes->Stable condition	
(r)	Description of how sleep and/or off mode was selected or programmed:	
	Set power button behaviors	
	Set power button behaviors	
	You can define what the power button does according to your preference. For example, by press power button, you can turn off the computer or put the computer to sleep or hibernation mode.	
	To change what the power button does:	
	1. Go to Control Panel and view by large icons or small icons.	
	<ol> <li>Click Power Options → Choose what the power buttons do.</li> </ol>	
	3. Change the settings as you prefer.	
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:	
	Based on user manual/Control Panel->Power Options-> Change Settings-> Restore default settings for this plan	
(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):	10 minutes
(u)	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):	N/A
(v)	Length of time before the display sleep mode is set to activate after user inactivity (in minutes):	10 minutes
(w)	Information on the energy-saving potential of power management functionality:	
	N/A	

(x)	User information on h	now to enable the power management f	unctionality:						
(**)	••••	Based on user manual-Set the	-						
	Set the power	0	, ,						
		compliant computers, the following power pla	an takes effect	when your computers have					
	• turn off the display	: After 10 minutes							
	<ul> <li>put the computer t</li> </ul>	o sleep: After 10 minutes							
	To awaken the compu	uter from Sleep mode, press any key on your	keyboard.						
	To reset the power plan:								
	<ol> <li>Right-click the battery status icon and select <b>Power Options</b>.</li> <li>Choose or customize a power plan of your preference.</li> </ol>								
	2. Choose of custor	mize a power plan of your preference.							
	Enable or disal	ble the ErP LPS compliance m	ode						
		eet the eco-design requirements of the ErP Lo	ot 3 regulation.	For more information, go					
	to: https://www.lenovo.com	m/us/en/compliance/eco-declaration							
	You can enable the Er is off or in sleep mode	P LPS compliance mode to reduce the const	umption of elec	ctricity when the computer					
	To enable or disable the	he ErP LPS compliance mode:							
		uter. When the logo screen is displayed, pres							
		Enhanced Power Saving Mode and press E ether you select Enabled or Disabled, do on		ing:					
		nabled, press Enter. Then, select <b>Power</b> $\rightarrow$ <b>A</b>							
		r the Wake on LAN feature is disabled autom isabled, press Enter. Then, go to the next ste		lisable it.					
		F10 to save the changes and exit.							
	When the ErP LPS cor following:	mpliance mode is enabled, you can wake up	the computer I	by doing one of the					
	<ul> <li>Press the power but</li> </ul>	itton.							
	Enable the Wake U	p on Alarm feature to make the computer wa	ke up at a set t	ime.					
	To meet the off mode	requirement of ErP compliance, you need to	disable the Fa	st Startup function.					
		nel and view by large icons or small icons.	Change						
	unavailable.	ons → Choose what the power buttons do	→ Change se	aungs mat are currently					
	3. Clear the <b>Turn on</b>	n fast startup (recommended) option from the	he <b>Shutdown</b> :	settings list.					
(z)	Test parameters for r	neasurements: — test voltage in V and	frequency in	Hz, — total harmonic					
	distortion of the elect	ricity supply system, — information and ed for electrical testing:							
		C C							
		Test voltage in V and frequency in Total harmonic distortion of the electricity s							
	Instrument	Range Used	upply system:	<u>=2%</u>					
	Туре	Or ***	-	Make and Model **					
	AC Power Source		EXT	ECH;6810;SN:1450172					
	Power Meter	0~200V;0~20A		AWA;WT210;SN:91H427511					
	Hygrothermograph $-20 \text{ to } 50^{\circ}\text{C}$ ;2			SEKONIC;ST-50					
	Light Measuring 1°; 0.01 to 999,900 cd/m2			onica Minolta;LS-150					
Additiona	Notebook Batter	v Information							
Additiona	onal Notebook Battery Information: Battery[ies] not user replaceable		Battery[ies] user replaceable	n/a					
		The battery[ies] in this product cannot replaced by users themselves. <sup>1)</sup>							
Internal/bu	ilt-in Battery								
External/de	etachable Battery								

Bios Backup Battery			
Other:			
Additional information			

1) The battery[ies] 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. Kasutajad ei saa selle toote akut/akusid ise hõlpsasti asendada.

Η μπαταρία[-ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες

La/les batterie(s présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes. Korisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu.

La batteria/le batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente.

Lietotāji paši nevar nomainīt šā ražojuma akumulatoru(-us). Šio gaminio baterijos [baterijų] pats vartotojas negali lengvai pakeisti. A termék akkumulátorát/akkumulátorait a felhasználó nem tudja egyedül egyszerűen kicserélni.

II-batterija/batteriji f'dan il-prodott ma tistax/jistgħux tiġi/jiġu sostitiwita/i mill-utenti stess. Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv.

De batterij(en) in dit product is (zijn) door de gebruiker niet gemakkelijk vervangbaar.

Użytkownik nie może sam w łatwy sposób wymienić baterii w tym produkcie. A ou as baterias deste produto não podem ser facilmente substituídas pelos próprios utilizadores.

Bateria (bateriile) din acest produs nu poate (pot) fi ușor înlocuită (înlocuite) de utilizatorii înșiși.

Batériu(-ie) v tomto výrobku nemôže výmieňať 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.