

## 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	http://www.lenovo.com/social_responsibility/us/en/datasheets_servers.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 *	Storage				
Commercial name *	ThinkServer Storage SA120				
Model number *	70F0,70F1				
Issue date *	2014,February 12				
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other				
Additional information					

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Quality	Quality Control		
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).		

Model number *	ThinkServer Storage SA120		
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Issue date *	2014,February 12	Logo	lenovo.

	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 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), 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).				
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)			$\boxtimes$	
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).				
P1.10*	Comment: Max limit in legal reference when tested according to EN1811:1998.  REACH Article 33 information about substances in articles is available at (add URL or mail contact):  http://www.lenovo.com/social_responsibility/us/en/ThinkGreen_products.html#environment				
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)				
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).	$\square$			
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).				
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).			$\boxtimes$	
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.	d 🔀			
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 Montrea Protocol (see legal reference).  Comment: Legal reference has no maximum concentration values.	al 🔀			
	Commons. Logar reference has no maximum consentration values.				

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

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Product	duct environmental attributes - Market requirements - Environmental conscious design Requirement m				
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).		Ш		
P7	Design Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable	$\boxtimes$			
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.			$\boxtimes$	
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.	$\overline{\boxtimes}$	$\Box$	$\Box$	
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	$\overline{\mathbb{X}}$	$\overline{\Box}$	$\overline{\Box}$	
	Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives				
P7.8*	Upgrading can be done using commonly available tools	$\boxtimes$	$\overline{\Box}$	Ħ	
P7.9.	Spare parts are available after end of production for: years				
P7.10	Service is available after end of production for: years			Ħ	
	Material and substance requirements				
P7.11*	Product cover/housing material type:				
	Material type: <i>Stee1</i> Material type: <i>PC</i> Material type: <i>ABS</i>			ļ	
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				
P7.16	Note B2)		_		
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4:  Marking:	Ш			
P7.17	Alt. 1				
	Chemical specifications of flame retardants in printed circuit boards >25g (without components):				
	TDDI A (additive) , TDDI A (reactive) , Other, chemical hame., CAO #.			ļ	
	Alt. 2			ļ	
	Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4:	$\boxtimes$			
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.			ļ	
	Provide a list of all used flame retardants including MSDS for each flame retardant. The list must contain			ļ	
	complete chemical name, CAS number and supplier.			ļ	
	1. Chemical name: , CAS #: , Supplier:			ļ	
	2. Chemical name: , CAS #: , Supplier:			Ų	
	3. Chemical name: , CAS #: , Supplier:			$\boxtimes$	
	Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4:	ш	ш		
	one media specifications of flame retardants in plastic parts >239 according 100 1040 4.			Ų	
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 0 %.				
P7.21	Of total plastic parts' weight >25g, biobased material content is 0 %.				
P7.22				$\boxtimes$	
P8	Batteries				
P8.1*	Battery chemical composition:			$\boxtimes$	
P8.2	Batteries meet the requirements of the following voluntary program/s:				

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	Product environmental attributes - Market requirements (continued)  Requirement r					met	
Item	Yes N			No	n.a.		
P9	Energy consump						
9.1	9.1 For the product the following power levels or energy consumptions are reported: <b>See P14</b> The product is shipped w/ WOL Enabled.						
Energy mo	Energy mode * Power level at 100 V AC Power level at 110 V AC Reference / Standard for energy modes and test method *						
Configura	Configuration-1						
Idle			<b>45.4</b> W	44.6 W			
Max			47.0 W	46.2 W			
Configura	tion-2	1	1	1			
Idle			<b>54.1</b> W	<b>52.8</b> W			
Max			<b>54.9</b> W	<b>53.6</b> W			
Configura	tion-3	1	l	ı			
Idle			183.6 W	133.8 W			
Max			196.1 W	150.3 W			
Configura	tion-4						
Idle			183.6 W	178.6 W			$\overline{}$
Max			196.1 W	190.7 W			
EPS No-lo	ad	W	W	W			$\overline{\Box}$
charger plu	power supply / ugged in the wall disconnected from t.)						
TEC Typical En	ergy Consumption	kWh/week	kWh/week	kWh/week			
ETEC * Annual En	ergy Consumption	kWh/year	kWh/year	kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.6 + P_{slee} + 0.1 + P_{idle} \times 0.3)$	<sub>:p</sub> X	
		P <sub>off</sub> : Off Mode(S5) - I	WOL Enabled; P <sub>sleep</sub> : S	Sleep Mode(S3) - WO	DL Enabled; P <sub>idle</sub> : Idle State - WOL Enabled		<u> </u>
Display res	solution : Megapix	els					
Print Spee	d .	Images per minu	te			_	$\overline{}$
	e to enter energy s					$\dashv$	1
P9.2*		the energy save fund	ction is provided with	the product.			
P9.3*		s the energy requirer	<u> </u>		n/s:		
	ENERGY STAR® Others specify:		Product category:	g , p g			
P10	Emissions						
		<ul> <li>Declared according</li> </ul>	to ISO 9296				
P10.1	Mode	Mode description		Declared A-weighted	Declared A-weighted		
				sound power	sound pressure level $L_{p{\sf Am}}$ (dB)		
				level $L_{W\!Ad}$ (B)	Operator position Bystander position	ons	
					Desktop (only if product is operator attend		
	Idle	* HDD : Idel		*	67.4	eu)	
	Operation	* HDD:Operating		*	67.4		
	Other mode						
	Measured accordi	ng to: X ISO7779 [	ECMA-74				
P10.2	The product most	Other			th L <sub>pAm</sub> measurement distance m)		
1 10.2	The product meets the acoustic noise requirements of the following voluntary program/s:						

Model nu	mber *	ThinkServer Storage SA120					
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Product	environn	nental attributes - Market requirements (continued)		Requ	uirei	nent	met
Item		· · · · · · · · · · · · · · · · · · ·		Ϋ́	es	No	n.a.
	Chemica	al emissions from printing products					
P10.3*	Test per	formed according to ECMA-328 (ISO/IEC 28360) standard, other specify:					$\boxtimes$
P10.4	Typical e	emission rate (print phase) is (mg/h):					$\boxtimes$
		Dust Ozone Styrene Benzene TVOC					_
P10.5	Chemica	al emission requirements of the following voluntary program/s are met for :					$\boxtimes$
		Oust Ozone Styrene Benzene	TVOC				
		magnetic emissions					
P10.6	Compute program	er display meets the requirement for low frequency electromagnetic fields of the foll /s:	owing volun	tary			
P11		nable materials for printing products					
P11.1*	A Safety	Data Sheet (SDS) is available for the ink/toner preparation, even if not legally requ	ired (see P	4.3).			$\boxtimes$
P11.2*	Paper co EN1228	ontaining post-consumer recycled fibers can be used, provided that it meets th 1.	e requireme	ents of			$\boxtimes$
P11.3*	2-sided (	(duplex) printing/copying is an integrated product function.					$\boxtimes$
P12	Ergonor	mics for computing products					
P12.1*	The disp	lay meets the ergonomic requirements of ISO 9241-307 for visual display technological	gies.				$\boxtimes$
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 Product Product Product	packaging material type(s): Corrugate and paper weight (kg): 2.585 packaging material type(s): LDPE weight (kg): 3.095 packaging material type(s): Wood weight (kg): 0.25 packaging material type(s): weight (kg): packaging material type(s): weight (kg):					
P13.2*	Product	plastic packaging is free from PVC.			X		
P13.3*		media for user and product documentation (tick box): ic , Paper , Other					
P13.4*	For pape	er user and product documentation, please specify contained percentage of post-co (Japan only 70%)	nsumer rec	ycled			$\boxtimes$
P14	Addition	nal information (See Note B4)					
	informati knowled	Supplier makes no representations, guarantees, assurances or warranties whether ion contained in this document. All information provided by supplier in this documer ge available at the time of completion, and supplier shall have no obligation to updathere is approximate and provided for informational purposes only. See a Lenovo A	it is provide ite such info	d based on ormation. Th	supp ne inf	olier's forma	3

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.

information.

## 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