

Annex B2 - Product environmental attributes Servers/Data Storage Products

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
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Additional information	The latest version of this document can be found at:	
	http://www.lenovo.com/ecodeclaration	

	based on product specification or test results based obtained from sample testing), that the product nts given in this declaration.
comornis to the statement	nts given in this declaration.
Type of product *	SERVER
Commercial name *	ThinkSystem SR645 V3, ThinkAgile HX645 V3, ThinkAgile VX645 V3
Model number *	7D9C, 7D9D, 7D9M, 7D9K
Issue date *	2022-11-24
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 n	umber *	7D9С, 7D9D, 7D9М, 7D9К Logo	Lon		
Issue da	nte *	2022-11-24	Lene	ovc	D _m
Produc	t environ	mental attributes - Legal requirements	Require	ment	t met
Item			Yes	No	N/A
P1		ous substances and preparations			
P1.1*	Products	s do comply with current European RoHS Directive. (See legal reference and NOTE B1)	\square		
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 /l (PCT) in preparations (see legal reference).	\boxtimes		
P1.5*		s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	ne 🔀		
P1.6*	(see leg	th direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/wee al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.	ek 🔀		
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			
P2	Batterie				
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)	\square		
P2.2*	Batteries referenc	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See leg. e)	al 🔀		
P2.3*	Batteries	s and accumulators are readily removable. (See legal reference)	\boxtimes		
P2.4*	Docume	ntation includes the number of cycles the (secondary) battery can withstand. (See legal reference	:)		
P2.5*		ternal batteries of a notebook computer cannot be "accessed and replaced by a nonprofessional e related text is present and legible on the external packaging (see legal reference)			
P3		nity verification & Eco design (ErP)			
P3.1*	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 EU ; www.lenovo.com/us/en/compliance/eu-doc for EU ;			
P3.2*	The pro	duct complies with the Eco design requirements for energy-related products, al reference).	\boxtimes		
		d information is; available at: https://www.lenovo.com/us/en/compliance/eco-	\square		
	declara				
P5		packaging			
P5.1*	hexaval	ng and packaging components do not contain more than 0,01% lead, mercury, cadmium a ent chromium by weight of these together.			
P5.2*		kaging materials are marked with abbreviations and numbers indicating the nature of the material e legal reference).	(s) 🔀		
P5.3*	(see leg Comme	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.	col 🔀		
P6		nt information			
P6.1*	Informat	on for recyclers/treatment facilities is available (see legal reference).	\square		

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 nu	umber *	7D9C, 7D9D, 7D9M, 7D9K	Logo	Lon		
Issue da	te *	2022-11-24		Len	ovo	тн
Product	t environ	mental attributes - Market requirements (See General NOTE GN	below)			
	- Enviro	onmental conscious design		Require	ment i	
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	N/A
P7 P7.1*		Disassembly, recycling at have to be treated separately are easily separable				
					<u> </u>	
P7.2*		naterials in covers/housing have no surface coating.			<u> </u>	
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.				
P7.5		arts are free from metal inlays or have inlays that can be removed with commonly a	available tools.	\square		
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).		\square		
		lifetime				
P7.7*		ng can be done e.g. with processor, memory, cards or drives				
P7.8*	Upgradir	ng can be done using commonly available tools		\square		
P7.9	Spare pa	arts are available after end of production for: years				
P7.10	Service i	is available after end of production for: years				
		and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):				
P7.12		type: Metal Material type: Plastic Material n materials of external electrical cables are PVC free.	al type:			
P7.12		n materials of external electrical cables are PVC free.		<u> </u>		
P7.14	weight (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 flame	e retardants, a	and		
		l chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine i an 25% post-consumer recycled content.	n parts containi	ng		
P7.15		sircuit boards, PCBs (without components) are low halogen: all 🗌 PCBs > 25 g	are low halog	jen		
	as define	ed in IEC 61249-2-21. (See ⁵ NOTE B2)	-			
P7.16	Marking:					
P7.17		hemical specifications of flame retardants in printed circuit boards > 25 g (without c	omponents):	_	_	
	TBBPA ((additive), TBBPA (reactive) (See NOTE B3), Other: chemical name:	, CAS #:			
		hemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4:	ents) > 25 g			
P7.18	Alt 1. Fl	ame retarded plastic parts > 25 g contain the following flame retardant substance	s/preparations			
		rations above 0,1%:	o, proparatione			
		ical name: , CAS #: (See NOTE B4)		_	_	
		ical name: , CAS #: " ical name: , CAS #: "				
			0.4.	_	_	
D7.40		hemical specifications of flame retardants in plastic parts > 25 g according ISO 104		<u> </u>	<u> </u>	
P7.19	•	c parts > 25 g, flame retardant substances/preparations above 0,1% are used which d the following Risk phrases; and Hazard statements:	i nave been			
	0		See note B5)			
P7.20*		sumer recycled plastic material content is used in the product (See Note B6):				
		at least one of the two alternatives below shall be answered;				
		total plastic parts' weight > 25 g, the postconsumer recycled plastic material conten ercentage of total plastic by weight) is %.	t (calculated a	3		
	or					
		e weight of recycled material is 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 <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>.

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 *	7D9С, 7D9D, 7D9М, 7D9К	Logo	Lenovo
Issue date *	2022-11-24		Lenovo
Product environm	nental attributes - Market requirements (continued)		Requirement met

Item

P7.21*		bstance requirements (material content is used			
1 7.21	If YES; at least of a) Of total plas	one of the two alternatives stic parts' weight > 25 g, t by weight) is %.	s below shall be answe	ered;	ated as a percentage of
	or b) The weight	of the biobased plastic m	naterial is g.		
P7.22*	Light sources are	e free from mercury, i.e. I d specify: Number of lar	less than 0,1 mg/lamp.	um mercury content pe	er lamp: mg
P7.23*		es an integral display, the	e total mercury content	in the integrated displ	
P8	Batteries				
P8.1*		composition: Lithium M	langanese Dioxide		
P9		ption (See NOTE B8)			
P9.1 Energy mo		he following power levels Power level at	Power level at	Power level at	Reference/Standard for energy
Peak (On-I	max)	100 V AC W	115 V AC W	230 V AC W	modes and test method *
Categor					
EPS No-loa		W	W	W	
charger plu	ower supply / gged in the wall isconnected from				
PTEC *)	W	W	W	
Typical Ene	ergy Consumption				
ETEC *		kWh/year	kWh/year	kWh/year	
	ergy Consumption	ency Level (International	Efficiency Marking Pro	tocol) * :	
Display res	,	megapixels			
. ,		•	~~~		
P9.2*	e to enter energy			avadu at	
P9.2 P9.3		It the energy save function (class (monitors only):	on is provided with the	product.	
P9.3	Emissions	class (monitors only).			
P10		- Declared according to	ISO 9296 (See NOTE	B9)	
P10.1	Mode	Mode description			it A-weighted sound power level, <i>L_{WA,c}</i> (B)
	Idle	* Typical Configuration		* 6.7	
	Operation	* Typical Configuration (Stress CPU to 80% TDP o TDP)	r Stress GPU to	* 8.7	
	Idle	* GPU Rich Configuration		* 6.7	
	Operation	* GPU Rich Configuration (Stress CPU to 80% TDP o TDP)	r Stress GPU to	* 8.3	
	Idle	* Storage Rich Configuration		* 7.5	
	Operation	* Storage Rich Configuration (Stress CPU to 80% TDP of TDP)		* 7.7	
	Other mode	Declared A-weighted sound $L_{p \rm Am}$		(operator po	osition desktop – idle)
	Other mode	Declared A-weighted sound $L_{p \rm Am}$	l pressure level (dB)	(operator po	osition desktop – operating)
	Measured accore	ding to: 🔀 ISO 7779 🗌	ECMA-74 (only if not covered by	ECMA-74)	
	Electromagneti				
P10.4		y meets the requirement	for low frequency elec	tromagnetic fields of t	he following voluntary

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 <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>

NOTE B9 A Guidance document on Acoustic Noise is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm Yes No

N/A

Model nu	umber *	7D9C, 7D9D, 7D9I	И, 7D9K				Logo	Long		
Issue da	te *	2022-11-24						Leno	VO	-
Product	t environ	mental attributes	- Market requi	irements (conti	inued)			Require	ment	met
Item								Yes	No	N/A
P12	Ergono	mics for computing	products							
P12.1*	The dis	play meets the ergon	omic requiremen	nts of ISO 9241-30)7 for visual o	lisplay technolo	gies.			\boxtimes
P12.2*	The phy	sical input device me	eets the requirem	nents of ISO 9995	and ISO 924	1-410.				
P13	Packag	ing and documenta	tion							
P13.1*	Product Product	packaging material t packaging material t packaging material t packaging material t	ype(s): Paper - (ype(s): Plastic -	Corrugated single Solid EPE (solid	e wall weig Expanded	ght (kg): 0.228 polyethylene) v		18		
P13.2*	Product	plastic primary pack	aging is free from	n PVC.				\boxtimes		
P13.3*		duct primary corruga er recovered fiber co		packaging, specif	y the contair	ned percentage	of minimum p			
P13.4*		media for user and p tronic, 🔀 Paper, 🔲		tation (tick box):						
P13.5	Ùser an	only complete this it d product documenta lease specify:			ee:					
	Totally of	chlorine-free								
	Elemen	tal chlorine-free						Π		
	Process	ed chlorine-free						Π		
P14	Volunta	ry programs								
P14.1	The pro	duct meets the requi	rements of the fo	ollowing voluntary	program(s):					
	Eco-lab	el: ENERGY STAR	Eco-label:	I	Eco-label:	Eco-labe	el:			
	Eco-lab	el:	Eco-label:	1	Eco-label:	Eco-labe	91:			
P15	Additio	nal information (Se	e NOTE B10)							
P 9		consumption of co								
	the info supplie informa Accour	Supplier makes no ormation contained r's knowledge avail ation. The information t Representative fo	in this documer lable at the time on provided her r more informat	nt. All information of completion, a re is approximate tion.	n provided k and supplier and provid	by supplier in t shall have no ed for informat	his document i obligation to u	s provided l pdate such	based	lon
P 9		ergy Star Qualified www.energystar.go								

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, P3.1
Regulation (EC) 1907/2006 (REACH Regulation), 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 2006/66/EC (Battery and accumulators Directive), as amended.* * 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 2014/35/EU (Low Voltage Directive)	P3.1
Directive 2014/30/EU (EMC Directive)	P3.1
Directive 2014/53/EU (RE 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
Commission Regulation (EC) No 278/2009 of 6 April 2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for no-load condition electric power demand and average active efficiency of external power supplies	P3.1, P3.2, P9.1
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	P2.4, P2.5, P3.1, P3.2, P7.23, P9.1
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
Implementing Regulation (EU) 2019/290 establishing the format for registration and reporting of producers of electrical and electronic equipment to the register.	
Commission Implementing Regulation 2017/699 establishing a common methodology for the calculation of the weight of electrical and electronic equipment (EEE) placed on the national market in each Member State and a common methodology for the calculation of the quantity of waste electrical and electronic equipment (WEEE) generated by weight in each Member State.	

Lenovo ErP Lot9 Information Sheet - Servers & Storage Products-

As required by COMMISSION REGULATION (EU) 2019/424 of 15 March 2019 laying down ecodesign requirements for servers and data storage products pursuant to Directive 2009/125/EC of the European Parliament and of the Council and amending Commission Regulation (EU) No 617/2013. (ErP Lot9)

Products scope of this sheet: Servers & storage products

This document is only valid in connection with the IT Eco Declaration of the specific Product.

SERVERS

General information		
Commercial name (3.1 (b))	ThinkSystem SR645 V3 / ThinkAgile HX645VX645 V3	Logo
	7001 Development Dr. Building 7 Morrisville, NC 27560	
	United States	Lenovo
Model Number (3.1 (c))	7D9C, 7D9D, 7D9M, 7D9K	
Issue Date	2022-11-24	
Additional information		

Product e	environmental attributes (EU) 2019/424 – Annex II points 3.1 and 3.3
1.a	Is the product consider to be in scope of ErP Lot 9 🛛 🔀 in scope 🗌 out of scope, product is out of scope as:
1.b (3.1 (a))	Server type Rack Server High Performance Computing (HPC) Tower Server Multi Node Server Blade Server Data Storage product (Please go to "DATA STORAGE PRODUCTS" section
1.c (3.1 (d))	Year of manufacture: 2022
1.d (3.1 (p))	Product model part of a server product family? No Yes List of all model configurations that are represented by the model: https://lenovopress.lenovo.com/servers/thinksystem-v3/sr645- v3
1.e	Information on the secure data deletion functionality
(3.1 (n))	 (a) instructions on how to use the functionality: 2 methods are provided to use the functionality. 1) Use a command line tool to do the secure data deletion on the remote target system via boot up a customized Linux OS on it. Eg: OneCli.exe serase -bmc USERID:PASSWORD@xx.xx.xxsftp root:password@xx.xx.xx.xi/home -log 5 2) Use BoMC to create a full functions bootable media, start the media and choose secure erase from the text menu. (b) techniques used: OS tools under Linux -> Standard Linux Open Source tool (c) supported secure data deletion standard (if any): Secure Erase/block Erase/Crypto Erase, Sanitize OR - Reference to other information: Hdparm: https://en.wikipedia.org/wiki/Hdparm Nvme-format: https://www.mankier.com/1/nvme-format sg_sanitize: https://www.systutorials.com/docs/linux/man/8-sg_sanitize/ scrub: https://www.systutorials.com/docs/linux/man/1-scrub/
	storcli: https://docs.broadcom.com/docs-and-downloads/raid-controllers/raid-controllers-common-iles/StorCLI RefMan revf.pdf
1.f (3.1 (o))	Blade servers? 🛛 🔀 No 💭 Yes list of recommended combinations with compatible chassis:
Recycling	
2.a (3.3 (a))	Indicative weight range at component level, of the following critical raw materials: (a) Cobalt in the batteries (b) Neodymium in the HDDs Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure Image: Second structure
2.b (3.3 (b))	Instructions on the disassembly operations (a) the type of operation; (b) the type and number of fastening technique(s) to be unlocked; (c) the tool(s) required. OR - Reference to other information: https://thinksystem.lenovofiles.com/help/topic/SR645V3/sr645_v3_maintenance_manual.pdf

2.c	Firmware	
	Reference to information on last available firmware:	
	https://datacentersupport.lenovo.com/us/en/products/servers/thinksystem/sr645v3/downloads/driver-list/	
Additio	nal information	

Server family specific information Family 1

Family	no. / name	🛛 🛛 1 - 2 CPU pop	ulated fami	ily			
	number(s) / Description	Standard or low-e	end perform	nance configuration:			
(3.1 (c))		Processor(Minimu	um result o	f core count * frequency in fa	amily):	AMD EPYC processor SP5 GEN	OA
					est cap	acity in family) * 24, PSU: 750W	* 2
		High-end perform					~
				D * 2, Memory: 64GB * 24, P		AMD EPYC processor SP5 GEN	UA
		You can refer to	1.3210 00	<i>2, memory.</i> 0400 24, 1	50.700	2	
			oadsolutio	ns.com/80PlusPowerSupplie	sDetail	.aspx?id=49&tvpe=1.	
Additio	nal information	along with					
Auuillo				<u>:om/servers/thinksystem-v3/</u>			
					0Rack	20and%20Tower%20Servers%4	<u>40T</u>
Duada		hinkSystem%20S					
F1.a	ct environmental attri			nd 100 % of rated output power	-		
гт.а (3.1 (e))							
((-))	(expressed in % and	rounded to the first of	decimal plac	ce): 🗌 Multi-output 🛛 Sing	gle-outp	ut	
	Standard or low-end	performance configu	iration(s).				
	10% 93.16 20% 9	5.23 50% 96.07 1	00% 94.79	Average 94.32			
				5			
		6 (1)					
	High-end performant	e configuration(s):		A			
	10% 92.38 20% 9 4	.75 50% 95.15 1	00% 93.27	Average 94.39			
F1.b	Power factor at 50 %		/el	standard or low-end performation	ance	high-end performance	
(3.1 (f))	(rounded to three de			configuration: 0.990		configuration: 1.000	
F1.c (3.1 (g))	PSU rated power out			standard or low-end performa	ance	high-end performance	
(3.1 (g))	(in Watts rounded to	the nearest integer)		configuration: 750		configuration: 1800	
	internal note: If a product model is part of a ser	ver product family, all PSI is offer	rad in a convor				
- · ·		ver product family, all PSUs offer vith the information specified in (e	e) and (f)				
F1.d	idle state power			standard or low-end performa	ance	high-end performance	
(3.1 (h))	idle state power (in Watts and rounde	ed to the first decimal	l place)	configuration: 163.6	ance	high-end performance configuration: 324.4	
(3.1 (h)) F1.e	idle state power	ed to the first decimal	l place)	configuration: 163.6	ance		
(3.1 (h))	idle state power (in Watts and rounde	ed to the first decimal ts for additional idle p	l place) power allow	configuration: 163.6	high-	configuration: 324.4 end performance	
(3.1 (h)) F1.e	idle state power (in Watts and rounde	ed to the first decimal ts for additional idle p	l place) power allow	configuration: 163.6 ances r low-end performance	high-	configuration: 324.4	
(3.1 (h)) F1.e	idle state power (in Watts and rounde	ed to the first decimal ts for additional idle p	l place) power allow standard of configuratio	configuration: 163.6 ances r low-end performance	high- confi	configuration: 324.4 end performance	
(3.1 (h)) F1.e (3.1 (i))	idle state power (in Watts and rounde List of all componen	ed to the first decimal ts for additional idle p	l place) power allow standard o configuratio	configuration: 163.6 ances r low-end performance on: et (10 × PerfCPU W)	high- confi	end performance guration:	
(3.1 (h)) F1.e (3.1 (i))	idle state power (in Watts and rounde List of all componen	ed to the first decimal ts for additional idle p	l place) power allow standard o configuratio	configuration: 163.6 ances r low-end performance on:	high- confi	end performance guration: Socket Socket	
(3.1 (h)) F1.e (3.1 (i))	idle state power (in Watts and rounde List of all componen CPU Performance	ed to the first decimal ts for additional idle p	I place) power allow standard o configuration 1 Sock 2 Sock	configuration: 163.6 ances r low-end performance on: et (10 × PerfCPU W)	high- confi	configuration: 324.4 end performance guration: Socket 2 Socket #: 1	
(3.1 (h)) F1.e (3.1 (i))	idle state power (in Watts and rounder List of all componen CPU Performance Additional PSU	ed to the first decimal ts for additional idle p	I place) power allow standard o configuratic 1 Sock 2 Sock No #: 1 Yes #: 2 No #: 0	configuration: 163.6 ances r low-end performance on: et (10 × PerfCPU W) et (7 × PerfCPU W)	high- confi 1 2 Yes	configuration: 324.4 end performance guration: Socket 2 Socket #: 1 : 0	
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Server family specific information Family 2

Family	no. / name	🛛 1 - 1 CPU pop	oulated fami	ily											
Model number(s) / Description (3.1 (c))		Standard or low-end performance configuration: Processor(Minimum result of core count * frequency in family): AMD EPYC processor SP5 GENOA 9124 * 1, Storage: 18TB 3.5" HDD * 2, Memory: 16GB(lowest capacity in family) * 12, PSU: 750W * 2													
													est capaci	ty in family) * 12, PSU: 750V	/ * 2
		High-end perform		guration: of core count * frequency in f	amilu): All	ID EBVC processor SB5 CE									
				D * 2, Memory: 64GB * 12, P			IOA								
		You can refer to		<u>2, iioiioiy: 0102 12, 10</u>		-									
			loadsolutio	ns.com/80PlusPowerSupplie	sDetail.as	px?id=49&type=1,									
Additional information		along with https://lenovopress.lenovo.com/servers/thinksystem-v3/sr645-v3 & https://desc.lenovo.com/#/categories/STG%40Servers%40Rack%20and%20Tower%20Servers%40T hinkSystem%20SR645%20V3													
								Dradus	t onvironmental attri						
								F1.a	ct environmental attri			nd 100 % of rated output power			
т.а 3.1 (e))				ce): 🗌 Multi-output 🛛 Sing											
, ,	(expressed in % and	rounded to the first	decimal plac		ie-output										
	Standard or low-end	performance config	uration(s).												
	Standard or low-end performance configuration(s): 10% 91.66 20% 93.87 50% 95.01 100% 94.10			Average 94.32											
				5											
	Likele en la f														
	High-end performand 10% 92.38 20% 94	ce configuration(s):	100% 02 27												
	1070 92.30 2070 94	.75 50% 95.15	100% 93.27	Average 94.39											
F1.b	Power factor at 50 %		vel	standard or low-end performance high-end performance											
(3.1 (f))	(rounded to three de			configuration: 0.990		onfiguration: 1.000									
=1.c 3.1 (g))	PSU rated power out (in Watts rounded to		`	standard or low-end performation: 750		gh-end performance onfiguration: 1800									
0.1 (g))	,	the hearest integer))	configuration. 750	CC										
	internal note: If a product model is part of a ser														
		ver product family, all PSUs one	ered in a server												
		ver product family, all PSUs offe vith the information specified in ((e) and (f)												
F1.d	idle state power			standard or low-end performa		gh-end performance									
(3.1 (h))	idle state power (in Watts and rounde	ed to the first decima	al place)	configuration: 101.4		gh-end performance onfiguration: 222.8									
(3.1 (h)) F1.e	idle state power	ed to the first decima	al place)	configuration: 101.4											
3.1 (h)) =1.e	idle state power (in Watts and rounde	ed to the first decima	al place) power allow	configuration: 101.4	high-end	ponfiguration: 222.8									
3.1 (h)) =1.e	idle state power (in Watts and rounde List of all componen	ed to the first decima	al place) power allow standard o configuratio	configuration: 101.4 rances r low-end performance on:	сс	ponfiguration: 222.8									
3.1 (h)) F 1.e	idle state power (in Watts and rounde	ed to the first decima	al place) power allow standard o configuratio	configuration: 101.4 rances r low-end performance	high-end	nfiguration: 222.8 I performance ation:									
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(3.1 (h)) F1.e (3.1 (i))	idle state power (in Watts and rounde List of all componen	ed to the first decima	al place) power allow standard o configuration	r low-end performance on: et (10 × PerfCPU W)	high-end configur	d performance ation: bocket bocket									
(3.1 (h)) F1.e (3.1 (i))	idle state power (in Watts and rounde List of all componen CPU Performance	ed to the first decima	al place) power allow standard o configuratio 2 Sock	r low-end performance on: et (10 × PerfCPU W)	high-enc configur 1 Sc 2 Sc	d performance ation: bocket bocket									
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er allowances adjustments during testing	idle state power (in Watts and rounder List of all componen CPU Performance Additional PSU HDD SDD Additional memory Additional buffered DDF	ed to the first decima ts for additional idle	al place) power allow standard o configuration 2 Sock No #: 1 Yes #: 2 No #: 0 Yes #: 192 No #: 0 none 	configuration: 101.4 rances r low-end performance on: 	high-enc configur 2 Sc Yes #: 1 No #: 0 Yes #: 2 Yes #: 7 No #: 0 	onfiguration: 222.8 I performance ation: ocket ocket 68GB									
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er allowances adjustments during testing	idle state power (in Watts and rounder List of all componen CPU Performance Additional PSU HDD SDD Additional memory Additional buffered DDF	ed to the first decima ts for additional idle	al place) power allow standard or configuration 2 2 2 0 2 0 Yes #: 192 No #: 0 Yes #: 192 No #: 0	configuration: 101.4 vances r low-end performance on: et (10 × PerfCPU W) et (7 × PerfCPU W) GB GB No Allowance 2,0 W/Active Port and < 10 Gb/s: 4,0 W/Active Port s and < 25Gb/s: 15,0 W/Active Port	high-enc configur 2 Sc 2 Sc Yes #: 1 No #: 0 Yes #: 2 Yes #: 7 No #: 0 One <1 Gl Sc 2 Sc Yes #: 1 No #: 0 Sc Sc	b/s: No Allowance b/s: 2,0 W/Active Port b/s: and < 10 Gb/s: 4,0 W/Active Port b/s: and < 25Gb/s: 15,0 W/Active Port									
power allowances adjustments during testing	idle state power (in Watts and rounder List of all componen CPU Performance Additional PSU HDD SDD Additional memory Additional buffered DDF	ed to the first decima ts for additional idle	al place) power allow standard or configuration 2 Sock No #: 1 Yes #: 2 No #: 0 Yes #: 192 No #: 0	configuration: 101.4 vances r low-end performance on: et (10 × PerfCPU W) et (7 × PerfCPU W) GB GB No Allowance 2,0 W/Active Port and < 10 Gb/s: 4,0 W/Active Port s and < 25Gb/s: 15,0 W/Active Port s and < 50Gb/s: 20,0 W/Active Port	high-enc configur	b/s: No Allowance b/s: 2,0 W/Active Port b/s: and < 10 Gb/s: 4,0 W/Active Port b/s and < 25Gb/s: 15,0 W/Active Port b/s and < 50Gb/s: 20,0 W/Active Port									
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