

Hitachi, Ltd. Hitachi Virtual Storage Platform 5600



Functional unit

Per sales unit (per unit)

System boundary

☒ final products ☐ intermediate products

Main specifications of the product

All-Flash Array

- Controller chassis

H/A-65AG-CBXAAS*, H/A-F65AG-B1NCBXBAS*

Up to 3 pairs * "H/A-" means "H-" or "A-"

- Drive box

H/A-F65AG-B1NSBX (Up to 96 SAS SSD)

Up to 24 units

H/A-F65AG-B1NNBX (Up to 96 NVMe SSD)

Up to 3 units

*The maximum installed drives represents

the case of connecting only a single type of drive box.

The mix of the SAS/NVMe drive is excluded

- Assumed operating years : 5years

* The specifications listed are subject to change without notice due to product improvements

Company Information

Hitachi, Ltd.

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Registration#	JR-BF-25003E
PCR number	PA-520000-BF-04
PCR name	IT equipments
Publication date	12/5/2025
Verification date	11/18/2025
Verification method	Product-by-product
Verification#	JV-BF-25003
Expiration date	11/17/2030
PCR review was conducted by:	
Approval date	8/15/2023
PCR review panel chair	Ken Yamagishi (Sustainable Management Promotion Organization)

Third party verifier*

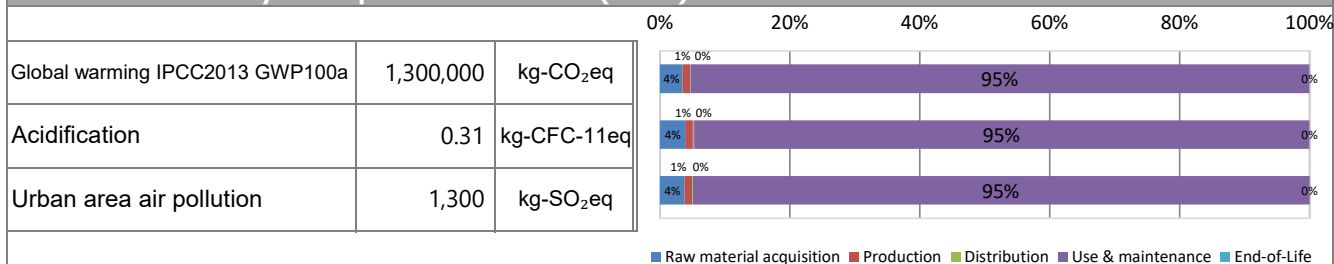
Yasuo Naito

Independent verification of data & declaration in accordance with ISO14025

☐ internal ☒ external

*Auditor's name is stated if system certification has been performed.

1. Results of life cycle impact assessment (LCIA)



Parameter	stage	Unit	Total	Raw material acquisition	Production	Distribution	Use & maintenance	End-of-Life
Global warming IPCC2013 GWP100a		kg-CO ₂ eq	1.3E+06	4.6E+04	1.5E+04	7.5E+02	1.2E+06	1.3E+03
Ozone layer destruction		kg-CFC-11eq	3.1E-01	4.3E-03	3.7E-03	1.0E-08	3.0E-01	3.8E-05
Acidification		kg-SO ₂ eq	1.3E+03	5.0E+01	1.5E+01	2.5E+00	1.2E+03	6.3E-01
Urban area air pollution		kg-SO ₂ eq	9.8E+02	3.7E+01	1.1E+01	9.4E-01	9.3E+02	3.8E-01
Photochemical ozone		kg-C ₂ H ₄ eq	2.5E+01	9.1E-01	2.9E-01	5.3E-03	2.4E+01	4.9E-03
Toxic chemicals(cancer)		kg-C ₆ H ₆ eq	7.3E+01	4.3E+01	3.6E-01	3.7E-03	2.9E+01	4.8E-02
Toxic chemicals(chronic disease)		kg-C ₆ H ₆ eq	4.2E+00	4.3E-01	4.5E-02	2.4E-03	3.7E+00	1.4E-03
Aquatic toxicity		kg-C ₆ H ₆ eq	2.6E+03	1.5E+02	3.0E+01	1.2E-04	2.4E+03	3.3E-01
Biological toxicity		kg-C ₆ H ₆ eq	6.3E+04	3.5E+03	7.2E+02	2.0E-03	5.9E+04	7.3E+00
Eutrophication		kg-PO ₄ ³⁻ eq	3.9E-01	3.1E-01	9.3E-04	7.7E-09	7.6E-02	4.8E-03
Land use(Occupation)		m ² /year	6.8E+03	5.1E+02	7.5E+01	6.3E+01	6.1E+03	7.3E+00
Land use(Transformation)		m ²	1.8E+02	6.5E+00	2.1E+00	1.3E+00	1.7E+02	1.5E-01
Resources consumption		kg-Sbeq	1.2E+01	3.7E+00	1.0E-01	3.1E-03	8.4E+00	2.1E-03

2. Life cycle inventory analysis (LCI)

Parameter	Unit
Non-renewable material resources	2.3E+04 kg
Non-renewable energy resources	4.9E+05 kg
Non-renewable energy resources	2.0E+07 MJ
Renewable material resources	5.5E+03 kg
Renewable primary energy	8.1E+06 MJ
Consumption of freshwater	4.7E+02 m ³

3. Material composition

Material	Unit
All Flash array Steel	64 %
Other metals	1 %
Plastics	3 %
PCB	4 %
Copper-clad wire,Motors	5 %
Batteries	0 %
PSU	11 %
SSD	12 %
Total	100 %

4. Waste to disposal

Parameter	Unit
Hazardous waste	0.0E+00 kg
Non-hazardous waste.	6.4E+03 kg
Treated MSW for landfill	1.8E-06 kg
Treated industrial waste for landfill	6.4E+03 kg

*Data derived from LCA and not assigned to the impact categories of LCIA



5. Additional explanation

<Products>

- Product Name : Hitachi Virtual Storage Platform 5600

- Conditions for calculating :

Controller chassis (H/A-65AG-CBXAAS 1 unit, H/A-F65AG-B1NCBxBAS 2 units) and drive boxes (H/A-F65AG-B1NSBX) 24 units, installed with the maximum number of SAS SSDs (2,304 units).

- Product type name of the scenario used :

Disk array (Solid State Drive(SSD) installed)

<Product main specifications>

Physical storage capacity^{*1} : 69,339TB

Operating years^{*2} : 5 years

Drive type : Solid State Drive (SAS SSD)

Drive interface : SAS

Installed drives : 2,304 units

- Measurement conditions :

-Power during use is measured by the measurement method specified by certified PCR (PA-520000-BF-04).

^{*1} The capacity is calculated as 1TB = 1,000,000,000,000 bytes

^{*2} The operating years were assumed to be the statutory useful life(5 years for computer/others)

• The largest amount of greenhouse gas emissions occurs during the use and maintenance stages, accounting for approximately 95% of the entire lifecycle. The energy consumption during use has a significant impact, so energy-saving performance during use is a very important factor. Note that the use and maintenance stages were evaluated under general conditions, so they may not be the same as the conditions under which the customer uses the product.

• In calculating EPD, we use our own data for the amount of raw materials used, but because it is difficult to collect data on the manufacture of the thousands of parts used, we use data from the manufacture of general raw materials. As a result, the product's unique characteristics may not be reflected.



SuMPO EPD
Type III Environmental Declaration (EPD)

Japan EPD Program by SuMPO

Sustainable Management Promotion Organization
14-8, Uchikanda 1-chome, Chiyoda-ku, Tokyo Japan
<https://ecoleaf-label.jp/>

Registration number : JR-BF-25003E

6-1. Supplementary environmental information

- This product is manufactured and assembled at a factory that has obtained ISO14001:2015 certification.
- This product complies with the European RoHS Directive.
- We have established environmentally friendly green procurement guidelines and are working on green procurement with our procurement partners.

7. Assumptions of secondary data used

Primary used IDEA V3.1.0 , complemented by CO2 Emissions Intensity v1.15.

8. Remarks

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- For data quantification, please refer to PCR and Rules on quantification and declaration.
- Comparative assertion is permitted only when Rules on quantification and declaration are satisfied.
(Reference URL : <https://ecoleaf-label.jp/regulation/>)
- This is a selfdeclared translation of EPD that can be accessed at <https://ecoleaf-label.jp/epd/2623> and is published for convenience purposes. Only the original EPD is valid and binding between parties.

Registration number : JR-BF-25003E