



SHARP

Sharp Corporation

DIGITAL MULTIFUNCTIONAL SYSTEM

BP-51M45 (US)

EXIT TRAY CABINET is optional,
its impact is not included.

Functional unit

Per unit of product

System boundary

☒ final products ☐ intermediate products

Raw material acquisition, Production, Distribution,
Use & maintenance, End-of-Life

Main specifications of the product

Model name : BP-51M45

Marking technologies : Electrophotographic Printer (EP)

Print speed : Monochrome 45prints/minute (A4)

Maximum Paper Size : A3W

Print/Copy/Scan : Standard

Duplex printing/ADF : Standard

Company Information

SHARP CORPORATION

Smart Business Solutions BU

E-mail : ECOLEAF-BS@sharp.co.jp

Registration#	JR-AI-25323E
PCR number	PA-590000-AI-08
PCR name	Imaging input and/or output equipment
Publication date	14 November 2025
Verification date	30 October 2025
Verification method	System certification
Verification#	FV-08-25050
Expiration date	29 October 2030
PCR review was conducted by:	
Approval date	01 September 2023
PCR review	Masayuki Kanzaki
panel chair	Sustainable Management Promotion Organization

Third party verifier*

Shouko Hashizume

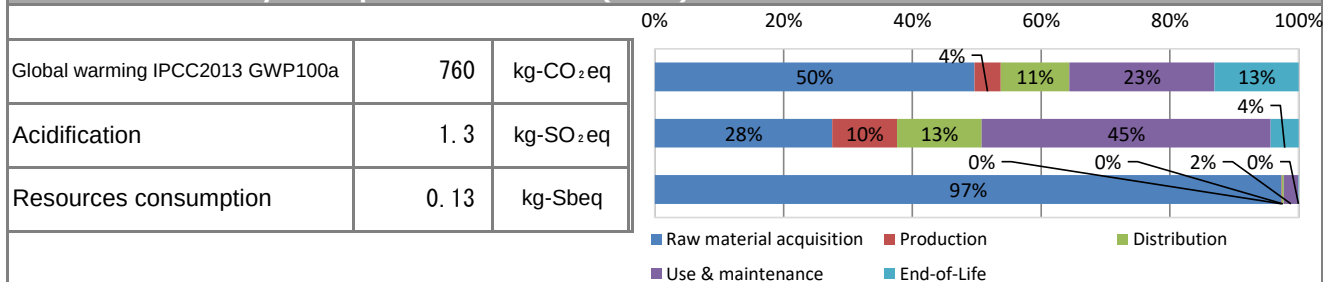
Independent verification of data & declaration in
accordance with ISO14025

☐ internal ☒ external

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

Registration number : JR-AI-25323E

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	7.6E+02	3.8E+02	3.1E+01	8.1E+01	1.7E+02	1.0E+02
Acidification		kg-SO ₂ eq	1.3E+00	3.6E-01	1.3E-01	1.7E-01	5.8E-01	5.6E-02
Resources consumption		kg-Sbeq	1.3E-01	1.3E-01	1.1E-04	3.4E-04	2.9E-03	1.1E-04

2. Life cycle inventory analysis (LCI)

Parameter	Unit
Non-renewable material resources	6.0E+01 kg
Renewable material resources	1.1E+02 kg

3. Material composition

Material	Unit
Steel	2.4E+01 kg
SUS	1.2E+00 kg
Aluminium	1.4E-01 kg
Other metal	1.7E-01 kg
Plastic	2.8E+01 kg
Rubber	1.2E-01 kg
Glass	1.7E+00 kg
Paper · Wood	1.5E+01 kg
Circuit Board	1.5E+00 kg
Others	5.5E+00 kg

5. Additional explanation

- Product destination: North America
 - Calculation method of use stage (scenario)
 - Expected usage period: five years
 - Estimated number of use : 297,600 sheets
$$32 \text{ (Jobs/Day)} \times 31 \text{ (Sheets/Job)} \div 4 \times 5 \text{ (Days/Week)} \times 4 \text{ (Weeks/Month)} \times 12 \text{ (Months/Year)} \times 5 \text{ (Years)} = 297,600 \text{ sheets}$$
 - The impact of paper for printing is not included.
 - Products selected in the scenario used for inventory calculation : Multifunction device (EP)
- ※ Calculated according to the ENERGY STAR® Ver.3.0 program.

6-1. Supplementary environmental information

- Assembly and production of this product, as well as production of the photoconductor and toner, which are the main components, are performed at ISO 14001-certified factories.

7. Assumptions of secondary data used

IDEA v3.1.0 and Japan EPD Program by SuMPO Registry data 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/2569> and is published for convenience purposes. Only the original EPD is valid and binding between parties.