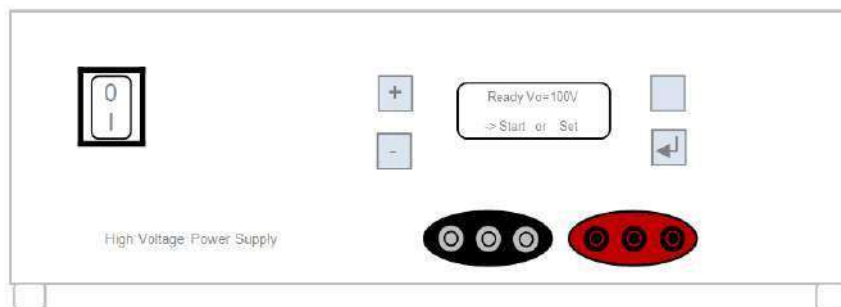




...means electrophoresis

Electrophoresis Power Supply HPS01 Users' manual



Serial No: 001918

Version: 3



1. INTRODUCTION & IDENTIFICATION

Product Name: Electrophoresis Power Supply HPS01

Model: HPS01

UDI-DI: 5213012290115

Manufacturer: DIMITRIADIS IOANNIS AND SON PC, HELLABIO. Steliou Kazantzidi 47, 57001, Thermi, Greece.

Intended Purpose: The HPS01 is an In Vitro Diagnostic (IVD) instrument intended to provide a regulated and stable high-voltage electrical field for the separation of analytes (e.g., serum proteins, hemoglobins) in agarose gels. It is designed for professional use in clinical laboratories.

2. SAFETY PRECAUTIONS & SYMBOLS




CAUTION: RISK OF ELECTRIC SHOCK!

- Do not open the chassis. There are no user-serviceable parts inside.
- Always connect the device to a grounded (earthed) power outlet.
- Do not use the device if the power cord or the output cables are damaged.
- Ensure the area around the electrophoresis tank is dry before operation.

SYMBOLS USED (ISO 15223-1 & EN 61010-1)

The following symbols are utilized on the device and packaging labels:

Symbol	Meaning	Standard
CE	CE Marking (Declaration of Conformity)	IVDR 2017/746
IVD	In Vitro Diagnostic Medical Device	ISO 15223-1
SN	Serial Number	ISO 15223-1
REF	Catalogue Number / Reference	ISO 15223-1
[i]	Consult Instructions for Use	ISO 15223-1
Manufacturer	Hellabio Logo & Address	ISO 15223-1

Symbol	Meaning	Standard
	Keep Dry	ISO 15223-1
	Temperature Limit	ISO 15223-1
WEEE	Do not dispose of municipal waste	Directive 2012/19/EU
	Caution: Risk of Electric Shock	EN 61010-1

3. UNPACKING AND INSTALLATION

1. Inspect the package for any signs of damage during transport.
2. Place the device on a flat, stable laboratory bench.
3. Ensure at least 10 cm of clearance around the device for proper ventilation.
4. Connect the power cord to a 220-240V AC (50/60 Hz) outlet.

4. OPERATION

4.1. Setup:

- Connect the Red (+) and Black (-) cables from the Electrophoresis Tank to the corresponding outputs on the HPS01.
- Turn the Power Switch (rear panel) to the ON position. The display will initialize in standby mode.

4.2. Settings:

1. Press the **SET** key. The display shows "Set Voltage".
2. Use the **[+]** or **[-]** keys to adjust the voltage (Range: 35V - 1200V).
3. Press **SET** again to adjust the timer (Range: 1 - 60 min).
4. Press **SET** to save and return to standby.

4.3. Starting the Run:

- Press **START**. The "Run" indicator will light up.

- The device will automatically stop when the timer reaches zero, and an audible signal will sound.

5. MAINTENANCE & CALIBRATION

- **Cleaning:** Clean the exterior with a soft, lint-free cloth dampened with mild detergent. Do not use solvents.
- **Calibration:** It is recommended to verify the output voltage once a year using a calibrated digital multimeter.
- **Service Life:** The expected service life of the device is 7 years from the date of manufacture, provided that maintenance instructions are followed.

6. TECHNICAL SPECIFICATIONS

- **Input Voltage:** 230Vac \pm 10%, 50/60 Hz
- **Output Voltage Range:** 35 - 1200 Vdc
- **Max Output Current:** 400 mA
- **Max Power:** 88 Watts

7. TROUBLESHOOTING (Error Codes)

- "OVERLOAD": Current exceeds 400mA. Check for short circuits in the tank or incorrect buffer concentration.
- "NO LOAD": No tank is detected. Check the cable connections.
- Display Blank: Check the main fuse (rear panel) and power cord.

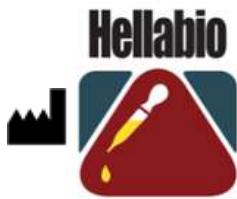
8. DISPOSAL & ENVIRONMENTAL PROTECTION

WEEE Compliance: This device must not be treated as household waste. It must be handed over to an applicable collection point for the recycling of electrical and electronic equipment. Before disposal, ensure the device is decontaminated from any biological hazards.



9. NOTICE TO USER

Any serious incident that has occurred in relation to the device shall be reported to the manufacturer (Hellabio) and the competent authority of the Member State in which the user and/or the patient is established (e.g., EOF in Greece).



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Electrophoresis Power Supply - Instructions for Use (IFU)

Code	IFU/HPS01_V3_EN	Syntax	Quality Manager
Edition	3	Approval	CEO

SYNTAX (NAME-TITLE-SIGNATURE)
Quality Manager Gavriilidou Maria

APPROVAL (NAME-TITLE-SIGNATURE)
CEO Dimitriadis Ioannis

LIST OF MODIFICATIONS			
Revised edition	Date	Description	Adopted by
3	26/03/2026	Update format and addition of symbols for regulatory compliance	CEO

The Quality Management Department is responsible for making the process available.

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The procedure does not apply if it is not signed by the CEO and the Quality Manager