

Velleman LABPS5005 Lab Power Supply With Dual Led Display User Manual

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Velleman LABPS5005 Lab Power Supply With Dual Led Display



Introduction

To all residents of the European Union

Important environmental information about this product.

This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Thank you for choosing Velleman! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

Safety Instructions

\triangle	Keep this device away from children and unauthorized users.
8	Indoor use only. Keep this device away from rain, moisture, splashing and dripping liquids. Never put objects filled with liquids on top of or close to the device.
Ą	DO NOT disassemble or open the cover under any circumstances. Touching live wires can cause life-threatening electroshocks. There are no user-serviceable parts inside the device. Ref er to an authorized dealer for service and/or spare parts. Always connect the device to an earthed power socket.
\triangle	Caution: device heats up during use. Make sure the ventilation openings are clear at all times. For sufficient air circulation, leave at least 1" (± 2.5 cm) in front of the openings. Place the device on a flat, heat resistant surface, do not place the device on carpets, fabrics
100	Always disconnect mains power when device not in use or when servicing or maintenance activities are performed. Handle the power cord by the plug only.
®	Keep this device away from dust and extreme temperatures.
	Protect this device from shocks and abuse. Avoid brute force when operating the device.
①	Do not use the device when damage to housing or cables is noticed. Do not attempt to service the device yourself but contact an authorized dealer.

General Guidelines

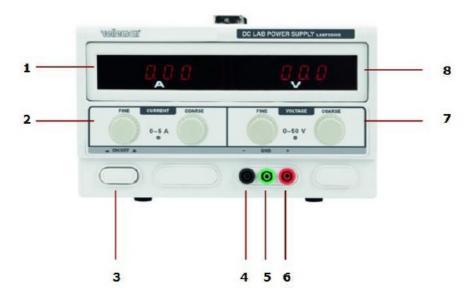
Refer to the Velleman® Service and Quality Warranty on the last pages of this manual.

- Familiarize yourself with the functions of the device before actually using it.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. Using the device in an unauthorized way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Keep this manual for future reference.

Overview

Refer to the illustrations on page 2 of this manual.

1	current indication	5	grounding terminal
2	current adjustment knob	6	output terminal (+)
3	power switch	7	voltage adjustment knob
4	output terminal (-)	8	voltage indication



Operation

Introduction

The device is a highly accurate, DC-regulated power supply with an adjustable output. This output can be used for constant voltage (C.V.) and constant current (C.C.).

The output voltage can be adjusted between 0 V and 50 V when the device is in the constant voltage mode or C.V.-mode. The current-limiting point (max. \pm 5 A) can also be set arbitrarily in this mode.

The output current can be adjusted continuously between 0 and 5 A in the constant current mode.

The output current and voltage are indicated through LED displays.

Using the device as a C.V. source

- 1. Switch on the device.
- 2. Turn the current adjustment knob fully clockwise to the maximum.
- 3. Turn the voltage adjustment knob to obtain a voltage that is close to the desired value. Use the fine-tune knob if desired (where applicable). The C.V. indicator lights on the display.

Using the current-limiting adjustment in C.V. mode

- 1. Switch on the device.
- 2. Turn both the current adjustment knobs fully anticlockwise to the minimum, and the voltage adjustment knobs fully clockwise to the maximum.
- 3. Short-circuit the output terminals by interconnecting them with the appropriate cable (60 V/16 A DC cable).
- 4. Turn the current adjustment knob to the required current-limiting value. Use the fine-tune knob if desired (where applicable). The C.C. indicator lights on the display.
- 5. Remove the short-circuit cable from both output terminals.
- 6. Turn the voltage adjustment knob to the required value. Use the fine-tune knob if desired (where applicable). The C.V. indicator lights up on the display.
- 7. Connect the load to the output terminals. If the current exceeds the current-limiting point, the C.C. indicator lights up on the display.

Connecting the Load

- · Connect the load.
- You can read the output current and the output voltage from the display as soon as the device has been switched on.
- The C.V. indicator is lit if the device is in the C.V.-mode.
- The C.V. LED is off and the C.C. LED will light if the Amp display indicates a value that exceeds the installed value. When this happens, the device will automatically go into current-limiting mode. Install a load that will allow the device to function normally.

Cleaning and Maintenance

- Disconnect the device from the mains prior to maintenance activities.
- The power supply cables must not show any damage. Have a qualified technician maintain the device.
- Wipe the device regularly with a moist, lint-free cloth. Do not use alcohol or solvents.
- There are no user-serviceable parts, apart from the fuse. Contact your dealer for spare parts if necessary.
- Store the device in a dry, well-ventilated, dust-free room.

Technical Specifications

Input voltage	230 V~, 50 Hz, 3 A, 405 W, pf: 0.77
output voltage	0-50 VDC adjustable max.
	0-5 A adjustable max.
ripple voltage	≤ 1.5 mV
	265 × 140 × 360 mm
	17 kg
•	F5

Use this device with original accessories only. Velleman nv cannot be held responsible in the event of damage or injury resulting from (incorrect) use of this device. For more info concerning this product and the latest version of this manual, please visit our website www.velleman.eu. The information in this manual is subject to change without prior notice.

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Documents / Resources



Velleman LABPS5005 Lab Power Supply With Dual Led Display [pdf] User Manual LABPS5005 Lab Power Supply With Dual Led Display, LABPS5005, Lab Power Supply With Dual Led Display, Power Supply With Dual Led Display, Dual Led Display

References

• Velleman – Wholesaler and developer of electronics

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