



# velleman LABPS3010 DC Lab Power Supply with Dual LED Display User Manual

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velleman®

**velleman LABPS3010 DC 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, don't install or use it and contact your dealer.

## Safety Instructions

	Keep this device away from children and unauthorized users.
	<b>Indoor use only.</b> 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.
	<b>DO NOT</b> 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. Refer to an authorized dealer for service and/or spare parts.  Always connect the device to an <b>earthed</b> power socket.
	<b>Caution:</b> device heats up during use. Make sure the ventilation openings are clear at all times. For sufficient air circulation, leave at least 1" ( $\pm$ 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...
	Always disconnect mains power when the device is 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.
	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.

- Familiarise 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 unauthorised 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.

- The device enjoys optimal protection thanks to the short-circuit protection and the current-limiting point. The power loss in case of short circuit is limited thanks to the protection circuit that controls the power loss of the transistors in the power supply. This feature keeps the device from being damaged. The device will automatically go into the current-limiting mode, which means that the current-limiting point (max.  $\pm 12\text{ A}$ ) is installed. Nevertheless, the short circuit should be repaired as soon as possible in order to prevent wear and unnecessary power consumption.
- The output will be cut off if the short-circuit occurs between the positive and the negative output terminal, which prevents power loss. The device will resume normal operation when the problem has been solved.
- This device is a large power source. The device should be well-ventilated when working at max. power in order to avoid overheating. Keep in mind that the surface of the heat sink is too hot to touch when the device is being used at max. power.
- Improper operation of the device and an excessive ambient temperature may cause certain internal components to fail. When this happens, the actual output voltage may exceed the rated output voltage. Proceed with caution when using this device and avoid unnecessary damage to the load.

## Overview

Refer to the illustrations on page 2 of this manual.

<b>1</b>	current indication	<b>6</b>	output terminal (+)
<b>2</b>	current adjustment knob	<b>7</b>	voltage adjustment knob
<b>3</b>	power switch	<b>8</b>	voltage indication
<b>4</b>	output terminal (-)	<b>9</b>	fuse
<b>5</b>	grounding terminal		



## Operation



1. Connect a load (electrical equipment, etc.) to the power supply output, and pay attention to the polarity. Do not reverse the polarity.
2. Plug AC input power cord into a suitable AC power jack.
3. Place the power switch to "ON" position, the power indicator light, and the power has been turned on.
4. Make sure the load current is less than the rated output current of the power supply. 80% of rated output current is recommended as the maximum current.

## 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
output voltage	0-30 V  adjustable max.
output current	0-10 A adjustable max.
ripple voltage	=/< 1.5 mV
dimensions	265 × 140 × 360 mm
weight	12.4 kg
fuse	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](http://www.velleman.eu).
- The information in this manual is subject to change without prior notice.

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## Warranty

### Velleman® Service and Quality Warranty

- Since its foundation in 1972, Velleman® acquired extensive experience in the electronics world and currently distributes its products in over 85 countries.
- All our products fulfil strict quality requirements and legal stipulations in the EU. In order to ensure the quality, our products regularly go through an extra quality check, both by an internal quality department and by specialized external organisations. If, all precautionary measures notwithstanding, problems should occur, please make appeal to our warranty (see guarantee conditions).

### General Warranty Conditions Concerning Consumer Products (for EU)

- All consumer products are subject to a 24-month warranty on production flaws and defective material as from the original date of purchase.
- Velleman® can decide to replace an article with an equivalent article, or to refund the retail value totally or partially when the complaint is valid and a free repair or replacement of the article is impossible, or if the expenses are out of proportion.
- You will be delivered a replacing article or a refund at the value of 100% of the purchase price in case of a flaw

## References

-  [Velleman](#) – Wholesaler and developer of electronics

Manuals+.