

Item number: 1800020

Instruction manual

Power supply McPower

„LBN-1990“ 19“

3 adjustable ranges: 0-15 V, 0-30 V, 0-60 V

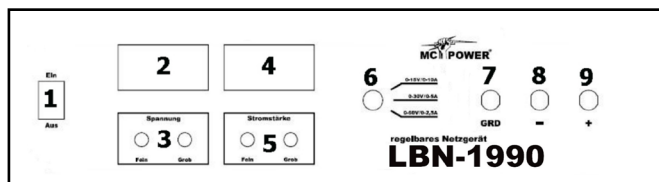
900 W, max. 60 A



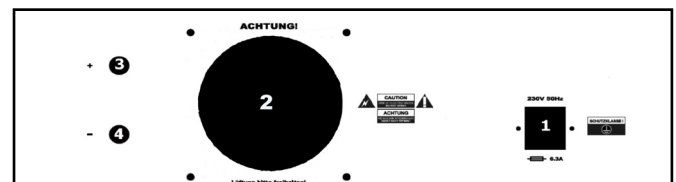
Model	Output voltage	Output current	Resolution
LBN-1990 Power: 900 W Weight: 8,3 kg Dimens. (HxBxT): 142x482x335 mm	0 – 15 V	0 – 60 A	0,1 ± 2 bit
	0 – 30 V	0 – 30 A	0,1 ± 2 bit
	0 – 60 V	0 – 15 A	0,1 ± 2 bit
Operating Voltage: 230 V ~ 50 Hz, Ripple: max 1%, Functional enviroment: 0 – 40 °C & max. 80% RH			

IMPORTANT NOTE:

This device has left the factory in a safe and fully operational condition. To maintain this condition and ensure a safe operation, the user must strictly follow the safety instructions and warnings contained in this user manual.



1. On/Off Switch
2. Voltage Display
3. Voltage: Fine Adjustment and Coarse Adjustment
4. Current Display
5. Current: Fine Adjustment and Coarse Adjustment
6. Range Selector Switch
7. GRD: Ground Terminal
8. Minus: Negative Output Terminal
9. Plus: Positive Output Terminal



1. Power Plug with Fuse Holder
2. Fan Grille
- + Output Terminal: Positive Output for Currents over 20 Amperes
- Output Terminal: Negative Output for Currents over 20 Amperes

STARTUP

- Plug the power plug into the 230V socket and connect the IEC connector to the device's power input.
- Check the voltage range and required current for the connected load.
- Turn on the device using the On/Off switch.
- Set the desired voltage range using the range selector switch and then adjust the precise voltage with the two voltage regulators.
- Set the current limit by short-circuiting the power supply through the connection of the positive and negative outputs.
- Connect the desired load to the terminals with the correct polarity.
- Note that for currents exceeding 20 amperes, use the rear terminals.

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SAFETY INSTRUCTIONS

- Do not open the device under any circumstances. Incorrect assembly may lead to fire or electric shocks.
- Before operating the device, check for any damage. If damage is found, do not operate the device.
- Please be aware that any technical modifications to the device will immediately void its approval.
- Keep the user manual for the device.
- To replace a faulty fuse, open the fuse holder at the IEC connector (rear). Ensure that you use an equivalent fuse (with the same ampere rating).
- Do not leave any objects inside the device, and do not block the fan or ventilation slots.
- Do not insert any objects into the device's ventilation slots, as this may cause short circuits.
- The device should be protected from splashing water and direct sunlight.
- Only connect the device to the designated power source. Never connect the device to any other power sources.
- Make sure that the mains voltage to be connected is not higher than the setting on the voltage selector switch, if available.
- Plug the power cord into suitable Schuko sockets only.
- Keep the device away from heat sources such as radiators or space heaters.
- The device should not be powered on after moving it from a cold to a warm room. Condensation may potentially damage the device. Leave the device off until it reaches room temperature.
- Exercise caution when handling power cables and connectors. Never touch them with wet hands.
- Do not place containers of liquids that could easily spill on or near the device. In case liquid enters the device, immediately unplug the power cord. Have the device inspected by a qualified service technician before using it again. Damages caused by liquids inside the device are not covered by the warranty.
- Ensure that the power cord is not pinched or damaged by sharp edges.
- Do not leave packaging materials lying around; plastic films/bags, styrofoam parts, etc., could become a dangerous toy for children.
- The device is not intended for children; it is not a toy.

INTENDED USE

This laboratory power supply is suitable for powering various consumers and assemblies. However, using it as a charger will lead to overload and inevitably result in damage to the device. **There is no warranty claim in this case.**

DISPOSAL INSTRUCTIONS

By separating materials, recycling and disposing of old equipment in this way, you are making an important contribution to protecting our environment. Packaging can be returned to appropriate collection points for free.

WEEE disposal note

According to the European WEEE Directive, electrical and electronic WEEE Directive, electrical and electronic equipment must not be disposed of with household waste. Their components must be recycled or disposed of separately, because toxic and hazardous components can cause lasting damage to health and the environment if disposed of improperly.

As a consumer, you are obliged under the Electrical and Electronic Equipment Act (ElektroG) to return electrical and electronic equipment free of charge at the end of its service life to the manufacturer, the point of sale or to public collection points set up for this purpose.

Details are regulated by the respective state law.

The symbol of the wheeled garbage can on the product, the operating instructions and/or the packaging refers to these regulations.

CARE INSTRUCTIONS

- Regularly inspect the device and the power cord for damage.
- Do not use damaged cables. New cables must have the same properties as the original.
- Please do not clean the device with cleaning agents. Use a lightly dampened cloth for cleaning.
- Avoid the use of alcohol or cleaning agents containing acetone, sulfur, beryllium, ammonia, or other solvents.
- Avoid excessive mechanical pressure and heavy soiling.



A multilingual version of this manual and the Declaration of Conformity can be found at the following link:

<http://ettgroup.de/product/1800020>