

Product Datasheet - Technical Specifications



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PeakTech[®]

Prüf- und Messtechnik

 Spitzentechnologie, die überzeugt



PeakTech[®] 6120

**Bedienungsanleitung /
Operation Manual**

**AC/DC-Labornetzgerät /
Power Supply**

1. Safety precautions

This product complies with the requirements of the following European Community Directives: 2004/108/EG (Electromagnetic Compatibility) and 2006/95/EG (Low Voltage) as amended by 2004/22/EG (CE-Marking).

To ensure safe operation of the equipment and eliminate the danger of serious injury due to short-circuits (arcing), the following safety precautions must be observed.

Damages resulting from failure to observe these safety precautions are exempt from any legal claims whatever.

- * Do not use this instrument for high-energy industrial installation measurement.
- * Do not place the equipment on damp or wet surfaces.
- * Replace a defective fuse only with a fuse of the original rating. Never short-circuit fuse or fuse holding.
- * Check test leads and probes for faulty insulation or bare wires before connection to the equipment.
- * To avoid electric shock, do not operate this product in wet or damp conditions. Conduct measuring works only in dry clothing and rubber shoes, i. e. on isolating mats.
- * Comply with the warning labels and other info on the equipment.
- * The measurement instrument is not to be operated unattended.
- * Do not subject the equipment to direct sunlight or extreme temperatures, humidity or dampness.
- * Do not subject the equipment to shocks or strong vibrations.
- * Do not operate the equipment near strong magnetic fields (motors, transformers etc.).
- * Keep hot soldering irons or guns away from the equipment.
- * Allow the equipment to stabilize at room temperature before taking up measurement (important for exact measurements).
- * Use caution when working with voltages above 35V DC or 25V AC. These Voltages pose shock hazard.
- * Periodically wipe the cabinet with a damp cloth and mild detergent. Do not use abrasives or solvents.
- * The instrument is suitable for indoor use only
- * Do not operate the meter before the cabinet has been closed and screwed safely as terminal can carry voltage.
- * Do not store the meter in a place of explosive, inflammable substances.
- * Do not modify the equipment in any way
- * Do not place the equipment face-down on any table or work bench to prevent damaging the controls at the front.
- * Opening the equipment and service- and repair work must only be performed by qualified service personnel
- * **-Measuring instruments don't belong to children hands.-**

1.1. Cleaning the cabinet

Prior to cleaning the cabinet, withdraw the mains plug from the power outlet.

Clean only with a damp, soft cloth and a commercially available mild household cleanser. Ensure that no water gets inside the equipment to prevent possible shorts and damage to the equipment.

2. General

The *PeakTech*[®] 6120 connects easy handling, a sturdy case, novel appearance and a good performance with an excellent cost effectiveness. It is the ideal power supply unit for science investigation, college, factory, electronic appliance maintenance and etc.

- * The model *PeakTech*[®] 6120 is AC and DC power supply, with its adjustable voltage output (Both AC and DC).
- * The DC is only rectified. Output voltage is continuously adjustable.
- * The unit features is small size, good performance, novel appearance and etc. It is the ideal supply for school.

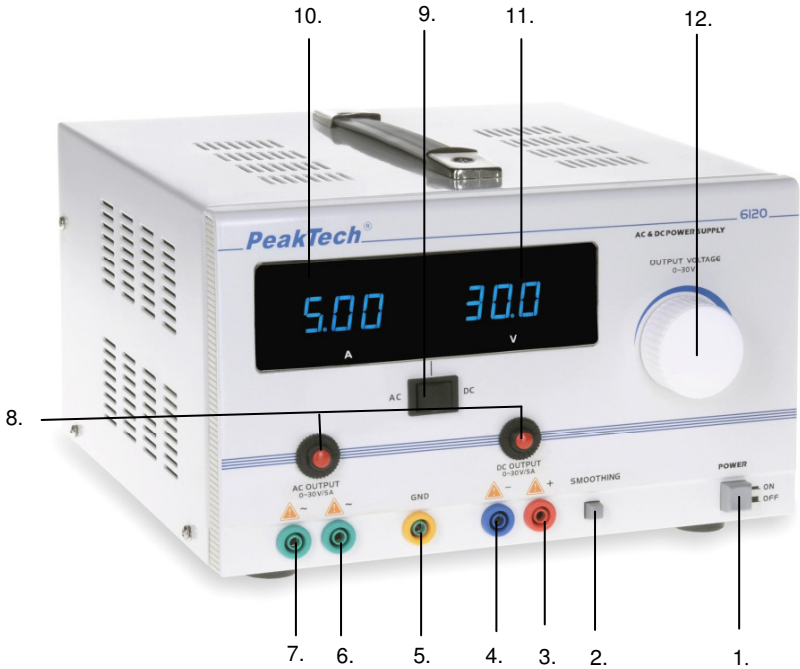
NOTE:

Laboratory Power Supplies are not designed for charging batteries. Any use of this type can cause serious damage to the device, which are exempt from any legal claims whatever.

3. Specifications

Input Voltage	220 - 240V AC +/-10%
Output Voltage	0 – 30V / 5A AC/DC
Output Power	150W (VA)
Display Accuracy	Voltmeter: +/- (2,5% + 2 dgt.) Amperemeter: +/- 2,5% + 2 dgt.)
Protection	over current
dimension (WxHxD)	260 x 160 x 260mm
weight	9,5kg

3.1. Controls and description



- 1.) Power switch: press then the power is ON/OFF
- 2.) Smoothing witch: press then the power supply output the smoothed DC
- 3.) Output terminal (+): connecting the terminal of DC positive load
- 4.) Output terminal (-): connecting the terminal of DC negative load
- 5.) CASE ground: connecting the case to ground
- 6.) Output terminal: connecting the terminal of AC load
- 7.) Output terminal: connecting the terminal of AC load
- 8.) thermal overload protection of the outputs
- 9.) AC or DC switch: Switching the AC or DC display
- 10.) Amp display: indicating output current by LED(both DC and AC
- 11.) Volt display: indicating output voltage by LED (both DC and AC)
- 12.) Voltage adjustment: adjusting the output voltage (both DC and AC)

3.2. Operating method

- 1.) First connecting the load to the power supply. After the unit is switched on, output voltage and current will be indicated by LED
- 2.) Turning the output voltage adjustment to adjust the voltage
- 3.) Using the AC or DC switch to choose the AC or DC
- 4.) Pressing on the smoothing switch to get the smoothed DC.

NOTE:

When DC is smoothed, the voltage will be higher than the voltmeter's value.

CAUTION!

When operating is finished, put it in a dry place of good ventilation, and keep it clean. If it is not in use for a long period, pull off the power supply plug for storage. For maintenance, input voltage must be cut off.

If a load of more than 5 A AC/DC connected to the corresponding output of PeakTech® 6120, the thermal overload protection will trip and thus switches off the output.

A resetting of the overload protection is possible if the maximum output current is not exceeded.

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This manual is according the latest technical knowing. Technical changings which are in the interest of progress, reserved.

We herewith confirm that the units are calibrated by the factory according to the specifications as per the technical specifications.

We recommend to calibrate the unit again, after 1 year.