

Product Datasheet - Technical Specifications



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PeakTech®

Prüf- und Messtechnik

 Spitzentechnologie, die überzeugt



PeakTech® 6155/6160

Bedienungsanleitung / Operation manual

**Labor-DC-Schaltnetzteil /
Laboratory Switching Mode Power Supply**

1. Safety Precautions

This product complies with the requirements of the following European Community Directives: 2004/108/EC (Electromagnetic Compatibility) and 2006/95/EC (Low Voltage) as amended by 2004/22/EC (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.
- * The instrument must be set up so that the power plug can be removed from the socket easily.
- * Prior to connection of the equipment to the mains outlet, check that the available mains voltage corresponds to the voltage setting of the equipment.
- * Connect the mains plug of the equipment only to a mains outlet with earth connection.
- * Do not place the equipment on damp or wet surfaces.
- * Do not cover the ventilation slots of the cabinet to ensure that the air is able to circulate freely inside.
- * Do not insert metal objects into the equipment by way of the ventilation slots.
- * Do not place water filled containers on the equipment (danger of short-circuit in case of knock over of the container).
- * 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.
- * Never touch the tips of the test leads or probe.
- * 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 meter 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
- * **Never** use this device as battery charger
- * **Measuring instruments don't belong to children hands-**

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. Introduction

These both power supplies in modern design constructed especially for the service centers and education fields. The LCD displays enables the user to read the fixed values very fast, precise and the outputs for constant voltage and current are continuously adjustable.

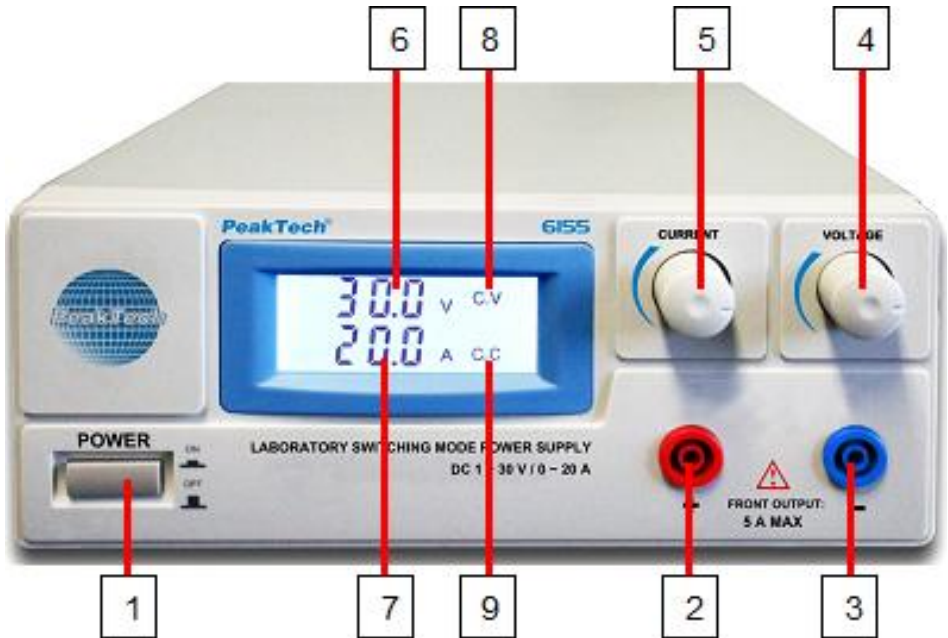
3. Technical Data

| | |
|------------------------------------|-----------------------------------------------|
| Operation voltage: | 230 V AC; 50 Hz |
| Output voltage: | 1 ~ 30 V DC |
| Output current: | P 6155 = 0 ~ 20 A P 6160 = 0 ~ 30 A |
| Ripple and noise: (0-100% Load) | 100mV _{pp} |
| Protection: | constant current and short-circuit protection |
| Voltage indication accuracy: | LCD $\pm 1\% + 3$ digits |
| Current indication accuracy: | LCD $\pm 1\% + 3$ digits |
| Dimensions: | (WxHxD) 336 x 87 x 214 mm |
| Weight: | 3 kg |
| Accessories: | Power cable and manual |

4. Operation

3.1. Controls and description of front-panel

PeakTech 6155



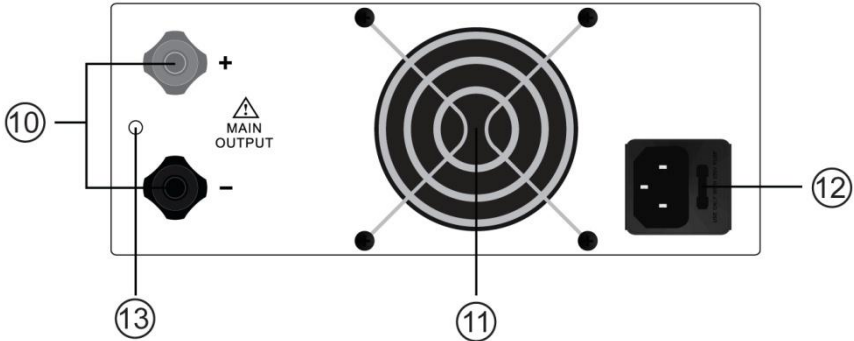
- (1) Power Switch: "ON" / "OFF"
- (2) Positive output
- (3) Negative output
- (4) Voltage Adjustment Knob
- (5) Current Adjustment Knob
- (6) Regulated Voltage Indication
- (7) Regulated Current Indication
- (8) Constant Voltage mode indication
- (9) Constant Current mode indication

PeakTech 6160



- (1) Power Switch: "ON" / "OFF"
- (2) Positive output
- (3) Negative output
- (4) Voltage Adjustment Knob
- (5) Current Adjustment Knob
- (6) Regulated Voltage Indication
- (7) Regulated Current Indication
- (8) Constant Voltage mode indication
- (9) Constant Current mode indication

(Back view)



- (10) Output terminal: max. 20A (P 6150) / 30A (P 6160); red=positive; blue=negative
- (11) Cooling fan
- (12) Fuse
- (13) Grounding terminal

5. Operating Method

1. For constant voltage mode adjust controls (5) clockwise to the maximum position. Switch on the power ON/OFF switch (1) and adjust controls (4) to set the desired output voltage. Connect the load to the output terminal (10).
2. For constant current mode adjust controls (4) clockwise to the maximum position. Adjust controls (5) anti-clockwise to the minimum position. Switch on the power ON/OFF switch (1) and connect the load to the output terminal (10). Adjust controls (5) to set the desired output current.
3. The overcurrent protection will be activated as soon as the load tries to draw more current than set by the current adjustment knob (5). As the result, the instrument switches to CC mode (9) and the output voltage will be decreased.

6. Caution

In the event of a short circuit at the output the current will limit at the value set by the current controls, however the unit should be turned off and the short circuit removed before continuing use.

The mains power must be switched off before servicing and servicing should be referred to a qualified person. The unit should be stored in a dry and well ventilated place and the power cord removed if storing for long periods.

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.

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This manual considers 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 one year.