

**Technical Data:**

Output voltage:	6 V-
Short-circuit current:	> 30 A
Toggle switch:	ON/OFF, automatic switch after a certain time in high current mode
LED indicator:	Shows readiness to operate
Dimensions:	approx. 160 x 120 x 45 mm
Case:	Plastic, ABS
Weight:	approx. 2.4 kg

**Recommended Accessory:**

P3121-1L Box-battery charger, 230 V~/50 - 60 Hz  
specially designed for box-rechargeable battery 6 V/10 Ah, magnetic

Do not drop the instrument. Should this occur, have the instrument checked and, if necessary, repaired by authorized service personnel.

In the event that unexpected problems arise during installation or use, turn the instrument off and contact an authorized dealer.

Do not expose the instrument to water drops or spray.

This instrument contains no parts that need to be serviced by the user.

The instrument may only be repaired by authorized service personnel.

This device is only to be operated by qualified persons and by others duly instructed by such persons.

FRUHMANN GmbH  
NTL Manufacturer & Wholesaler, Austria



NTL  
InnoSYSTEM

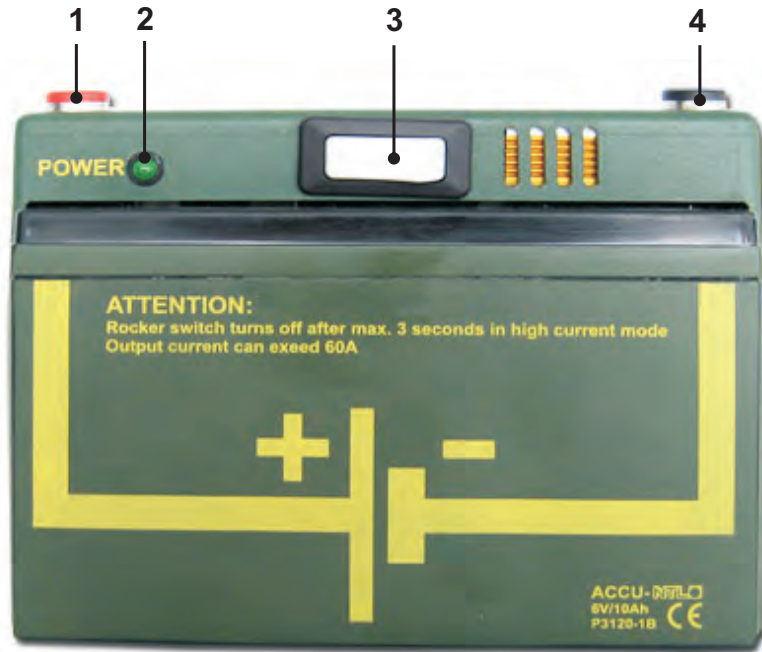
## Box-rechargeable battery 6 V/10 Ah, magnetic P3120-1B

The box-rechargeable battery 6V/10 Ah provides 6 V of constant DC voltage at a short-circuit current > 30 A. The box-rechargeable battery 6V/10 Ah has been designed especially to be used with the devices listed below as well as for experiments with high current.

Box-AC converter P3120-1W, box-DC converter P3120-1K, box-function generator P3120-1G and box-3-phase converter P3120-3D.  
The box-rechargeable battery 6V/10 Ah is secured magnetically and is thus ideal for all experiments on the magnetic assembly panel within the **NTL-innoSYSTEM**.

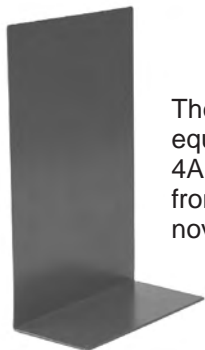
The output voltage is tapped by means of 4 mm safety receptacles.





- 1 4 mm safety receptacle, red (positive terminal), DC 6 V
- 2 LED power control lamp, green
- 3 Toggle switch "ON/OFF"
- 5 4 mm safety receptacle, blue (negative terminal), DC 6 V
- 10 magnets on the reverse side

### Ways of using the box-rechargeable battery 6 V/10 Ah, magnetic:



The box-rechargeable battery 6 V/10 Ah, magnetic, can be equipped with converters for use with the assembly panel P3120-4A, allowing it to be converted into a "table model" in an instant. The front panel has been designed simply, enabling it to be used even by novices in experimenting.

### Example:

Box-DC converter P3120-1K, magnetic, mounted on box-rechargeable battery 6 V/10 Ah, magnetic, on assembly panel P3120-4A .  
Output voltage: 0 ... 12 V DC, max. 3 A



### Operation:

The box-rechargeable battery 6 V/10 Ah is switched on by means of the toggle switch (3); the green LED pilot lamp (2) shows that the unit is ready. The output voltage 6 V DC can be tapped from each of the 4 mm safety receptacles (1, 4).

- a) Low current range: (<16A) Toggle switch is working as ON/OFF switch.
- b) High current range: (>16A) Toggle switch automatically switches off after a certain time. Usually high current can be supplied for about 3 seconds.

### ATTENTION:

Do not open the battery!  
Do not charge the battery with higher voltage than 7,2V. Danger of explosion!  
Do not charge the battery in a gas proof room!

The box-rechargeable battery 6 V/10 Ah may be recharged with the aid of a charger e.g. the box-battery charger P3120-1L. The average amount of time necessary for fully recharging the battery is 14 hours when completely empty.

Use cables with a minimum cross section of 2,5 mm<sup>2</sup> only.  
Please note that the battery can become hot when using in high current experiments.  
Never cover the ventilation slots.