



This unit regenerates the capacity-lost 12V lead-acid batteries, sulfated because of persistent undercharging, or self-discharging during too long storage time.

**Technical parameters:**

- nominal input voltage : 230V AC, 50Hz
  - nominal output voltage 12V DC
  - max. charging current (effective ) 5A
  - voltage limit : 15V, 16V, no voltage limit(max 25V)
  - current adjustment : 0-5A
  - primer/secunder fuse : 2A/10A
  - max consumption from battery: 50mA
  - tempereature.: 0-40°C
  - operation temperature max.60°C
  - size : 100\*130\*235mm
  - weight: 3,4 kg
  - IP class : 30
- Protected against short circuit.



**Settings - Regeneration:**

- Measure the capacity of the sulfated battery.
- Connect the device to the battery. Red to the positive, black to the negative terminal
- Tune the voltage potmeter to 15V ( gel or flooded batteries ) or 16V (in case of absorbed electrolit batteries)
- Tune the current potmeter to 1/20th of actual battery capacity.
- Switch on the main switch.
- Check the leds to make sure that the device is charging with the selected current.

If the LEDS are indicating different charging current (or no charging at all) than the selected, press the START button. (In this case the voltage limitation is ignored for two hours). This is indicated by a flashing red led.

Charge the battery for 25-30 hours with the 1/20th (effective value) current of the actual capacity. Inm case the voltage reaches the pre- setted voltage limit (15V or 16V ), the device will charging.

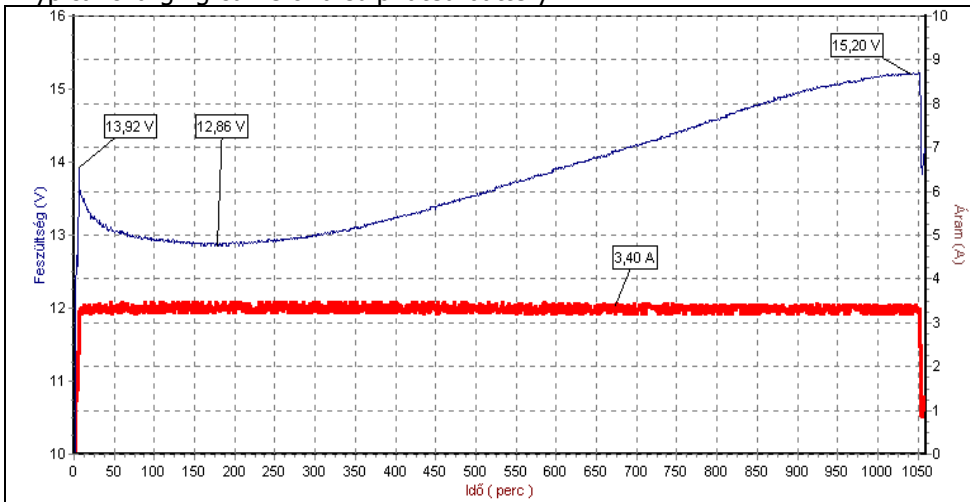
After 25-30 hours of charging , measure the capacity again. If you have 20-30% better result, repeat the charging session.

For measuring the capacity, we recommend to use FOREX capacity tester. You can connect the desulfating unit to the tester and leave it there. It can make 1-8 automatic cycles. In this case as the capacity is increasing, you should set the device to a higher charging current.

**Can be used for the following tyoe of batetries :**

flooded starter or deep cycle batteries, absorbed electrolit batteries ,- gel filled batteries

Typical charging curve of a sulphated battery



**Safety features:**

- In case the device tempereature is to high, the device decreases the charging current in order to perevent overheating.
- Do not cover the device during operation.
- Always charge the batteries in a well ventilated place.