

Battery Regenerator

Your battery

will no longer be a mystery!





Battery Regenerator

The innovative device for the treatment of **lead-acid batteries**,
modular, is now available to **everyone!**

The integrated solution of the discharge + multi-voltage charger
allows to realize a variety of activities in a simple
and **automatic way**.

The device is **portable**, and it is possible to perform tests directly at
the customer or at the installation, the data collected will be easily
transferred to a PC in order to elaborate and print.

It is a high quality and reliable product Made in Italy.

cod: REGEN.01
dim: 300 x 200 x 460h
weight: 7kg

Warning: all tests will be carried out on one battery at time.

What kind of batteries can you treat with Battery Regenerator?

- Lead acid starter batteries (MF and SMF) at 12 Volt.
- AGM starter batteries 12 Volt.
- AGM stand-by batteries at 6 Volt or at 12 Volt.
- Lead acid batteries (both tubular and flat), for cycle use, 6/8/12 Volt.
- AGM batteries for cycle use, 6/8/12 Volt.

How does the Battery Regenerator work?

Three simple actions are needed and **the rest happens automatically:**

Choose the activity
from the 5 options

Set the data of the
battery to deal

START

Minimum requirements:
Windows 10 32/64-Bit
version or Android min. 8.0*

*from September 2020



What can you do with the Battery Regenerator?

1. Check the batteries and status

- It can be done on a new battery, check the correctness of the declared data, and also on an used battery to check its status/conditions.
- It consists of a fully automatic charge/discharge/charge cycle.
- The discharge current is constant.
- The discharge cycle involves 100% battery discharge.
- Depending on the type of battery and the application, the discharge capacity can be checked in 20 hours, 5 hours and 2 hours.
- The report with the result can be saved in PDF and printed.
- Duration varies by test, between 12 hours and 48 hours ca.

2h discharge capacity value declared by the manufacturer

Detected value

CAPACITY TEST RESULT N 2°

Customer
U.B.S. Union Battery Service
Battery type **AGM** Voltage **12 V** Serial number **0000005632**
Brand **Zenith** Model **ZL120175**

Capacità	C2	C5	C20	% C2	% C5	% C20
Nominale	70 Ah					
Misurata	70,8 Ah			101 %		

2. Charging and discharging cycle sequence (“cycling” battery) *

- It is generally made on a new battery and for cyclic use (DEEP-CYCLE) in order to check its behaviour over time.
- It is possible to set up to 10 charge/discharge cycles. The sequence will be totally automatic.
- The discharge current is constant.
- The discharge cycle involves discharging the battery 100%.
- Depending on the type of battery and the application, the discharge capacity can be checked in 20 hours, 5 hours and 2 hours.
- The report with the result can be saved in PDF and printed.
- Duration varies according to the number of cycles set, keeping in mind that each cycle can be about 15-35 hours.

* do not do this activity on lead acid starter batteries.

Capacity value declared by the manufacturer

Detected value after the first cycle

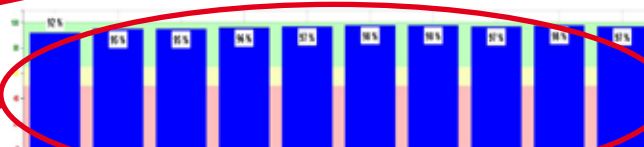
Detected value after the last cycle

Battery features graph

CYCLIC TEST RESULT N 3°

Customer
U.B.S. Union Battery Service
Battery type **Piombo/Acido** Voltage **12 V** Serial number **0000000005**
Brand **Trojan** Model **TJ120145**

Capacità	C2	C5	C20	% C2	% C5	% C20
Nominale	120 Ah					
Primo Ciclo	110,9 Ah				92 %	
Ultimo Ciclo	116,6 Ah				97 %	



3. Equalize/balance new batteries

- The activity is absolutely indispensable to guarantee a longer life of the batteries, especially when installing multiple units connected together in series or in parallel.
- The aim is to make the batteries “homogeneous” with each other, especially if they are produced at different times and stored in different ways.
- It remains essential that the batteries must still be of the same brand and model.
- The cycle lasts about 7 - 20 hours.
- No report is expected.

4. Refresh the batteries in stock

- This is a charge/micro discharge/charge sequence specially developed to try to restore the original characteristics, on batteries that have been in stock for a certain time.
- The cycle lasts about 5 - 10 hours.
- No report is expected.

5. Regenerate batteries used incorrectly

- **Warning:** regeneration treatment is absolutely recommendable even on batteries in use, still working, in order to prevent deterioration: **“Regenerates time and time savings”**.
The earlier it is done, the greater % success rate will be.
- It can be applied on any type of used lead battery.
- NOT all batteries subjected to treatment will give a positive result.
- It is preferable for AGM batteries to carry out a capacity test after a few days from the end of the regeneration process, which has a positive result.
- It uses a specific algorithm that manages the sequence of charges/discharges.
- The algorithm adapts to the behaviour of the battery during the process.
- Duration varies from 24 hours to 120 hours.
- The result report can be saved in PDF and printed.

REGENERATION RESULT N 3°					
Customer U.B.S. Union Battery Service					
Battery type AGM		Voltage 12 V	Serial number 0020200268		
Brand Zenith		Model ZL120175			
Capacità	C5	C20	% C5	% C20	Esito
Nominale	65 Ah	75 Ah			✓
Iniziale	45,6 Ah				
Finale	63,5 Ah		97 %		
Valutazione	Batteria OK				

Capacity value declared by the manufacturer

Detected value before the regeneration

Detected value after the regeneration



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