

Battery Test Analyzer
The performance of your
batteries, **under control**



esenergia



Why to control each cell in the battery?

Batteries are composed of cells which when connected in series, produce certain groups of voltages, but even with the most modern manufacturing techniques, all these cells do not end up being the same. With the cycling of batteries and under different working conditions (electrolyte level, temperatures, connection quality, etc.) of each cell, some age much faster than others.

In each battery the problem begins with a single cell and then gradually spreads to the rest.

The sooner a problem is found in a cell, the repair will be so much cheaper and less chance of damaging the rest of the elements.

A balanced battery is the best guarantee from unscheduled outages, as the failure of a cell may be catastrophic for the entire battery.

Higher performance for your batteries

The products of esenergia help control the performance of battery powered systems.

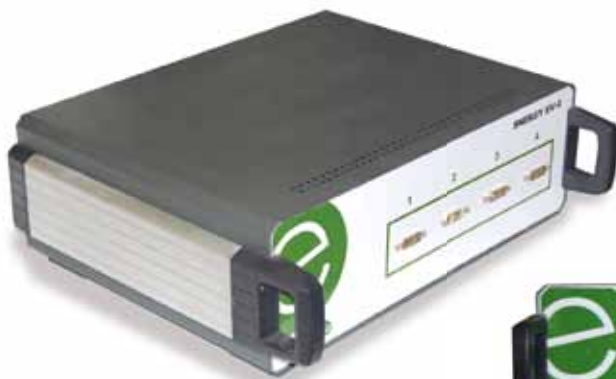
The device is connected with a reference cable to the negative pole of the battery and then each connection to the next positive pole until you reach the last positive pole, leaving the rest of the connections free.

The current probes are connected to the cables that we want to control and the temperature probes may be used to measure the battery and environment temperature.

With all these systems connected, we can obtain a strict control over the battery, voltage of each element in real time or the minimum reached, remaining battery charge and its temperature.

Developed with next-generation technology and with a sustained commitment to go a further step towards energy sustainability of the planet, **Battery Test Analyzer** will enable you to diagnose

the potential partial or total failure of the batteries in advance, which will result in significant energy savings for our customers economy and by controlling the battery remotely, travel for diagnosis will be avoided.





Battery Test Analyzer is an electronic system that enables individual monitoring of each cell to prevent unexpected failures of your battery.

The balance of the battery and its constant monitoring provide information and measure data such as:

- Full, partial and individual voltage of each battery.
- Connected only to the positive terminals and one negative terminal.
- Measurement of the internal resistance of the entire battery and current measurement and its direction (optional).
- Measurement of the battery temperature (optional).
- Information of adjustments in maximum and minimum voltages.
- Control of any type of batteries, Pb, Ni-Cd, Ni-MH, Li, etc.
- Maintains control even in polarity reversal status.

Technical Specifications

Model	Snergy EV 1	Snergy EV 2	Snergy EV 3	Snergy EV 4	Snergy EV 6
Channels	12	24	36	48	72

- Power supply voltage: 100-240 V.
- Power supply frequency: 50-60 Hz.
- Control voltage: 200 V for each controller (master).
- Connection of multiple controllers via RJ 45: Unlimited voltage control.
- Number of readers (slaves) controlled by each master: 6 Units.
- Maximum power: 5.3 W.
- Data output via RJ45 connector.
- Measurement of differential voltage, only one cable per cell.
- Software compatible with Windows XP, Vista and Windows 7-8.
- Modular system that enables you to configure the device as required based on needs.
- Version with sending of alerts via GSM (optional).
- Monitoring software for batteries or for analysis of batteries.



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