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# BATTERY TESTER SERIES EEST 50-60 ELECTRICAL ENERGY STORAGE TESTER - 6U COMPACT

- **COMPUTERIZED TEST BENCH FOR BATTERY MAINTENANCE**
- **ALL BATTERY TYPES**
- **SWITCHED MODE POWER SUPPLY**

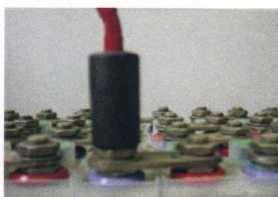


## Mains Characteristics

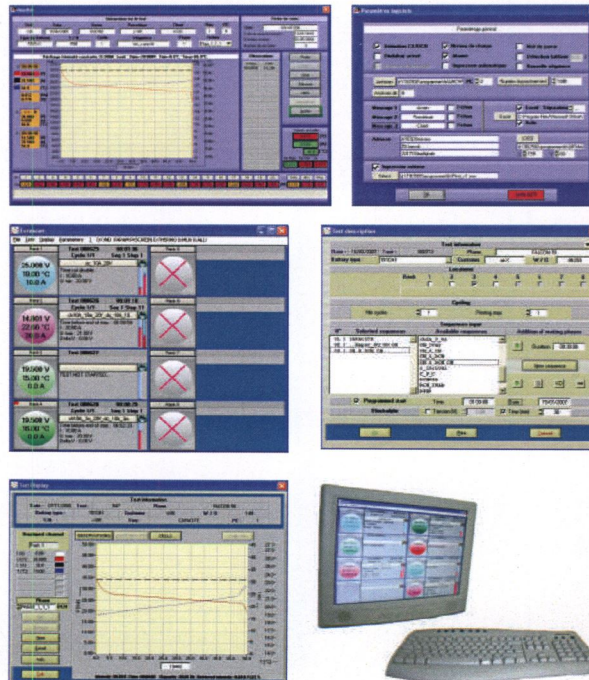
- 1 channel of charge/discharge 50V/60A
- Main powers available are indicative ones (Voltage and intensity in charge and discharge on each channel can be adapted upon request)
- Immediate or delayed test start.
- Control of voltages under 16 bits.
- Temperature Measurement with type K thermocouples.
- Alarm for electrolyte level.
- Shut down at predefined voltages Min, Max or delta V.
- Shut down as a function of time - Protection against temperature defect.
- Set up of multiple cycles and / or sequences
- Functioning in "local" mode, electronic management, if computer failure.
- Possibility of controlling the EEST from a remote location.
- Printing and automatic filing of data at the end of the test.
- Data protection and results saving and backup in case of power shutdown.
- Test result storage and research by user defined criteria.
- Curves drawing per phase.

## Option

- Connection systems for battery elements voltage, measurement or deep discharge



## Software interface



Typical screen display

ELECTRICAL TESTS



# EEST 50-60 BATTERY TESTER SERIES

## ELECTRICAL ENERGY STORAGE TESTER - 6U COMPACT

### 1 to 12 channels of independent measures

<b>FUNCTION</b>	<b>Characteristics</b> ● : Standard ○ : Option
<b>Channel selection</b>	● Selection of one channel available even if others are in use
<b>Charging phase</b>	<ul style="list-style-type: none"> <li>● Constant or variable Intensity/Voltage</li> <li>● Adjustable from PC, profile, EXCEL file</li> <li>● On I constant, or variable, limit U max, -ΔV, time, temperature min and max, ΔT°/Δt</li> <li>● On U constant, or variable, limit I min, times ΔI (%), temperature min and max, ΔT°/Δt</li> <li>● Temperature protection probe type K, adjustable</li> <li>○ Elements voltage measurements and stop or stand by on elements voltage</li> </ul>
<b>Discharging phase</b>	<ul style="list-style-type: none"> <li>● Constant or variable Intensity</li> <li>● Adjustable from PC, profile, EXCEL file</li> <li>● U min limit, time, temperature min and max, ΔT°/Δt</li> <li>● Temperature protection probe type K, adjustable</li> <li>○ Elements voltage measurements and stop or stand by on elements voltage</li> <li>○ Automatic deep discharge</li> </ul>
<b>Stand by phase</b>	● Stand by period adjustable from PC
<b>Cycle</b>	<ul style="list-style-type: none"> <li>● Choice of phases totally adjustable from PC</li> <li>● In chronological order or according to conditions</li> <li>● Repeat cycles</li> <li>● Sequence of cycles with different phases</li> </ul>
<b>Status of channels</b>	● Permanent display of battery status, colour code
<b>Status of test</b>	● Permanent display of data regarding current phase
<b>Errors message and observations</b>	<ul style="list-style-type: none"> <li>● Error message display</li> <li>● Automatic storage of all errors during test</li> <li>● Send by email: errors, observations, message</li> </ul>
<b>Blank play</b>	● Check up of all contacts before test lanch
<b>Pause, Stop</b>	● Possibility to pause/stop during the test
<b>Delayed or immediate start</b>	● Select time and date for test start
<b>Results</b>	<ul style="list-style-type: none"> <li>● Data on test performed and tested battery</li> <li>● Plan voltage, intensity, temperature</li> <li>● Restored or absorbed capacity (% and Ah)</li> <li>● Voltage, Intesity and temperature at the beginning and at the end of phase</li> <li>● Events happened during the selected phase</li> <li>○ Voltage of each battery elements</li> <li>○ Average, Min and Max of element voltage</li> </ul>

<b>FUNCTION</b>	<b>Characteristics</b> ● : Standard ○ : Option
<b>Phase filing</b>	<ul style="list-style-type: none"> <li>● Automatic filing at the end of each phase (all data, history → traceability)</li> <li>● Save current data if error encountered</li> <li>● Archives in network</li> <li>● Consultation of archives between different benches</li> </ul>
<b>Print</b>	<ul style="list-style-type: none"> <li>● Automatic print of results at the end of test</li> <li>● Print on demand of the result of one battery for one phase (modification of axes available)</li> <li>○ Possibility to print voltage acquisitions</li> </ul>
<b>Display</b>	<ul style="list-style-type: none"> <li>● Display of I, U, T° for each channel in test</li> <li>● Display zoom on curves</li> <li>● Display of each channel in test results</li> <li>○ Display of elements tension</li> </ul>
<b>Intermittent printing</b>	● Choice of step between prints in automatic mode
<b>Inverter</b>	○ Protection and saving of all data during power cut
<b>Alarm</b>	● Buzzer for check-up level of electrolyte, temperature defect
<b>Custom-designed</b>	<ul style="list-style-type: none"> <li>○ Software of piloting and acquisitions (reception, statistics, curves upon request)</li> <li>○ CMM programming</li> <li>○ Power adjustable on request</li> </ul>
<b>Element voltage</b>	○ Individual measurement of each battery element voltage
<b>Re-balancing</b>	○ Deep discharge or re-balancing test
<b>Isolation</b>	○ Automatic isolation measurement
<b>Export data</b>	● To EXCEL