

## Computerized battery controlling, testing and data logging system

### Main technical features:

1. Power supply: 220V / 50Hz / 1 500 VA;
2. Number of charge/discharge channels (single cell per channel) : 2 in a rack, 8 in cabinet;
3. Ability to work in parallel mode;
4. Max. output current in charge and discharge mode for each channel : 100 A;
5. Max. output current in parallel mode : up to 200 A (depending on channels working in parallel);
6. Max.output voltage : 3 V (4.4 V in another modification);
7. Min. voltage in discharge mode : 0.9 V;
8. Accuracy of current :  $\pm 0.2\%$  FSR, Resolution: 0.01 A;
9. Accuracy of voltage :  $\pm 0.1\%$  Full Scale. Resolution: 0.001V;
10. ADC : 15 bit;
11. Cell voltage measurement for each channel;
12. Potentials measurement with reference electrode for each channel;
13. Pressure measurement for each channel (4-20mA- analog input);
14. Gassing measurement for each channel (24V P-type digital input);
15. Temperature measurement for each channel;
16. Work modes: Charge, Discharge, CV, CC, CP
17. PLC for each channel, which provides:
18. Temporary storage of test data in case of a lost connection to a PC and immediately sending it to the PC when connection is restored ;
19. Visualization of main test parameters-current, voltage, amp-hours etc.;
20. Auto restart test after restoring of broken power supply;



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21. Data acquisition rate – 100 ms;
22. Electronic commutation when switching charge and discharge modes;
23. Dimensions (H X W x D) [mm] : 256 x 545 x 500;

**Test management and data logging software : Battery Test Manager (BTM 2.1) :**

24. Creation and editing of test programs,
25. Grouping circuits for parallel work,
26. Uploading, starting, stopping and interrupting of test programs,
27. Visualization of tester's current state on main window,
28. Storing sample measurement data for all tests in a database,
29. Visualization of stored data from database, drawing charts etc.,
30. Printing report data,
31. Export to Excel;