

## AKT-Series Battery Testers

- A wide range of modules with different power rating
- Easily expandable, 1 to 200 test places
- Stand alone, freely programmable test modules
- Mix test possibility, each module runs independently
- PC-controlled, possibility to add printer and bar code reader
- Easy to use software
- Clear display view tells immediately the status of each module
- RS-232, USB or IEEE-488 PC-interface

Test modules are designed to fit 19" wide and 3U high rack. One rack includes 1 to 20 test modules depending on power rating. Each test module is an independent tester including charger, load and measurement. All communication with a test module, setting of parameters and reading of test results, is done using a PC-computer.

At the beginning of the test process there are a short circuit and a polarity test of the battery. The test program is based on CHARGER and DISCHARGER software macros. Each macro has its own parameters and they can be loaded several after each others. A test is interrupted if voltage increase is not happening or charging lasts over 2 times more than precalculated value. Optional temperature measurement is available to measure battery temperature during charge and discharge cycles.



An easy to use user interface tells the status of each battery using signal light symbols. Numerical measured values are reached by activating the signal light of the desired battery.

The flexibility of the system allows simultaneous quick incoming test of batteries and a long term durability testing.

FUNCTION	CHARGER	DISCHARGER
Select function	Constant current / -voltage	Constant current / -resistance
Set parameter	Current/voltage/ mAh-quantity	Current/ resistance
Set cut off parameter	Voltage / time / mAh-quantity	Voltage / mAh-quantity
Set alarm parameter	Time / temperature (if in software)	Temperature (if in software )

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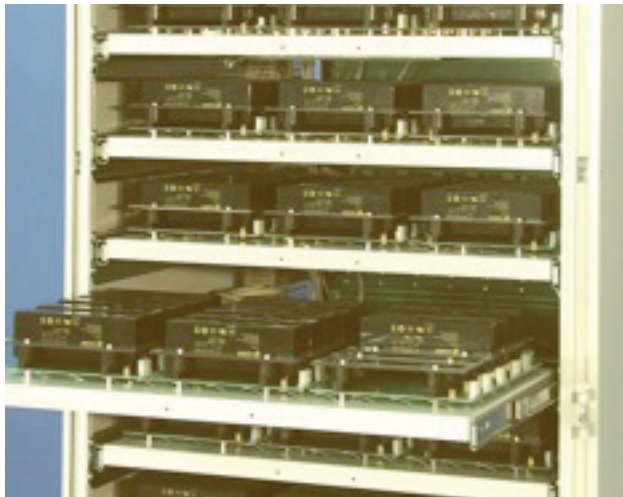
During each software module an automatic calculation of charging or discharging Ah-quantity is calculated.

Technical information ( here is shown only 2 different cases, parameters are adjusted according the batteries to be tested )

TYPE	AKT 1,0 - 100	AKT 30 - 105
Power connection	230V, 50Hz	230V,50Hz
Quantity of test places	1 - 5 x 20	Max 105
Charging voltage	3 - 5V	10 - 15V
Charging / discharging current	50 - 200 mA	0 - 2000mA
Cut off value of constant voltage charging	Time 1 - 60 min Current 5...20mA	Time 1 - 120 min Current 5..200mA
Cut off value of constant current charging	Voltage 3 - 5V mAh quantity 20 - 500	Voltage 10 - 15V mAh quantity 20 - 2000
Discharge switch	Voltage 2,5 - 4V mAh-quantity 20 - 500	10 - 15V mAh-quantity 20 - 2000
Battery temperature (optional)	20 - 100°C	20 - 100°C
Charged / discharged mAh	0 - 500mAh	0 - 5000mAh
Final voltage of discharging	2,5 - 4V	10 - 15V
Efficiency rate	Mathematical 0...100%	Mathematical 0...100%



AKT 1,0 test module and a rack for 10 modules



AKT-30-105, interface adapter for batteries



AKT 1,0-100, test rack for 100 batteries with adapters