

RZ-80 Battery Tester



Illustrative photo

General Features

- Designed for capacity testing of batteries and load testing of DC power systems
- Wide range of input voltage from 20 to 60VDC
- Compact size and low weight
- Allows for use of up to 12 MM02 measurement modules with a total of 288 inputs for measuring the voltage of battery blocks
- Can be used also without MM02 modules (e.g. as a testing load for DC and AC systems)
- Reduced number of conductors due to wireless data transfer among modules
- Possibility to change the number of measurement modules prior to the start of capacity testing
- Maximum time of measurement up to 24 hours
- Easy and intuitive control
- PC connection via USB
- Suitable for various battery types – lead-acid, NiCd, NiMH, Li-Ion, Li-FePO4, etc..

Power Module Features

- Power input protected by circuit breakers
- No need of external power supply
- Backlit touchscreen LCD display (160 x 104 pixels)
- Adjustable parameters to prevent deep discharge of batteries
- Battery testing using constant current or constant power
- Measured data stored in internal memory
- PC Software for download and processing of measured data into graph form
- Forced cooling

Measurement Module Features

- 24 inputs for voltage measuring (max. 20V / input)
- Measuring inputs equipped with protection against overvoltage and reverse polarity
- Temperature measurement for each module
- Power supply input galvanically isolated from measuring inputs
- Power supplied from the tested battery string or separate DC power supply
- Wireless data transfer system



Applications

- Functional and capacity testing of batteries
- Load testing of DC power supplies

Description

The RZ-80 Battery Tester is suitable for testing of various types of batteries with a nominal voltage between 24VDC and 48VDC. Its compact size and low weight make it ideal for everyday use, especially in confined spaces.

Settings

- Measurement identification number set manually (can be modified after measurement)
- End of measurement set manually - time interval, total voltage of battery string, voltage of battery blocks, number of faulty blocks, discharged capacity (possible to combine different conditions)
- Type of test – constant current or constant power
- Battery discharge value
- Sampling interval of 1 – 60 minutes
- Number of cells in a battery block (1 to 10) and minimum voltage of a battery cell (0 to 10V)

Values available during measurement

- Passed and remaining time of capacity testing
- Total voltage of battery string
- Actual current
- Actual power
- Discharged capacity
- Temperature measured by each module
- Voltage of individual battery blocks (possible to sort by order or voltage)
- Possibility to read and change selected parameters

Values available after measurement

- Possibility to read the values of individual measurements and change parameters directly on the display, without the need of a PC when in the field
- Overview of memory usage

Nominal voltage of battery string	24VDC	36VDC	48VDC
RZ-80 max. testing current *	38A	65A	80A

Note.: The table shows selected values of max current for battery testing using constant current and minimum voltage of 1.8V / cell.

	RZ80
Weight	8 kg
Dimensions (H-W-D) mm	300 x 203 x 330 mm