

RZ-120 / RZ-240 Battery Tester



Illustrative photo

General Features

- Designed for capacity testing of batteries and load testing of DC and AC power systems
- Wide range of input voltage 24 to 800VDC or 600VAC
- 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, etc..

Power Module Features

- Components designed for operating voltage of max 800VDC
- Possibility to connect power input to DC (or AC) voltage regardless of polarity
- Power input protected by fuse
- Exchangeable modules ZA 100/24, ZA 400/24, ZA 800/24 for 3 different ranges of input voltage
- Load powered directly from the tested set and redundantly from 230VAC mains
- Backlit touchscreen LCD display (160 x 104 pixels)
- Control board and LCD display galvanically isolated from the parts under dangerous voltage
- 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 and AC power supplies

Description

RZ-120 and RZ-240 Battery Testers are designed for capacity testing of battery strings with nominal voltage of min 24VDC. They are suitable for use with various types of batteries. Thanks to the high maximum operating voltage it is possible to use these devices for a wide range of battery string voltages.

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	48VDC	110VDC	220VDC	400VDC	600VDC
RZ-120 max testing current*	60A	120A	30A	20A	10A	8A
RZ-240 max testing current *	125A	240A	60A	40A	25A	15A

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

Using the plug-in supply	ZA 100/24	ZA 400/24	ZA 800/24
Input voltage range	20 - 100VDC	80 – 400VDC	200 – 800VDC

	RZ120	RZ240
Weight	17 kg	22 kg
Dimensions (H-W-D) mm	317 x 231 x 602 mm	497 x 231 x 602 mm

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