

cellchecker™

Lead Acid Pulse Load Battery Tester



- Computes State of Charge for lead acid battery types (SLA, AGM, Gel, Flooded)
- Tests battery condition - quickly and easily identifies weak or failing batteries
- Simple to operate, genuine Pulse Load testing with test results in 15 seconds
- Tests 2-volt, 4-volt, 6-volt, 8-volt or 12-volt batteries up to 200AH
- Measures battery performance under load, not just voltage or internal resistance
- Ideal for battery management and cell matching - reduce costs and increase reliability
- Made and serviced in the U.S.A.

Easy to understand LED display

12 test modes



Rugged rubber sleeve

Internal cooling fan

48" removable test leads

cellchecker is ideal for testing fire and security alarm systems. Using pulse load technology it provides a comprehensive test of a battery's state of charge and condition

SPECIFICATIONS

Testing capability (modes):

2-volt [2-25AH]
4-volt [2-25AH]
6-volt [1-4AH, 5-15AH, 16-50AH, 20-100AH, 50-200AH]
8-volt [2-20AH, 20-100AH]
12-volt [1-4AH, 5-15AH, 16-50AH, 20-100AH, 50-200AH]

Power (internal): 4 x AA batteries (not included)

Auto shut-off: After 20 minutes w/o test activity

Display: 8 LEDs - colors green, yellow, red

Pulse Load: Magnitude varies according to battery type
Test duration: Approx. 15 seconds

Test leads: 48" rubber coated lead wire, solid copper clamps, R/A sheathed banana plugs

Dimensions: 9.25 x 6.25 x 2.00 inches

Weight: approx. 32 oz (908 g)

Accessory Kit:

This accessory kit includes a protective soft case and suspension crown/hanging strap.

The soft case has a secure Velcro strap and protects against dirt and impact.



The hanging strap has a quick release buckle for easy fastening to conduit, pipes, ladder rung, etc.

Lead sets

These flexible 48" lead sets feature high strand count 18AWG rubber coated, kinkless lead wire with R/A sheathed banana plugs.

Two styles of solid copper clamps available:

Clip-type

Clamp: solid copper -
max jaw opening: 0.625"



Plier-type (accessory)

Clamp: solid copper -
max opening: 1.125"



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WHY PULSE LOAD BATTERY TESTING?

Battery voltage alone is not a reliable parameter for determining remaining capacity and condition; it also does not indicate whether the battery will be able to deliver power when placed under load. Rather than simply displaying a voltage reading, cellchecker™ determines a battery's remaining power capacity by measuring its ability to maintain voltage levels while under load. The tester then makes an assessment based on these readings and displays the remaining percentage capacity of the battery.

Pulse load testers verify that a battery can deliver power by actually making it deliver power. The duration and repetition of the load test cycle varies depending on the battery type being tested. Factors that are considered when determining the size and duration of the pulse load are battery design (high rate or low rate), battery chemistry, and the battery's typical application. This helps ensure that the power demand on the battery during the pulse load test will be comparable to what the battery experiences under normal operation conditions.

HIGHEST STANDARDS

"...it is imperative to determine whether a battery would be able to sustain the necessary load for the required amount of time without failing. Practically, only load testing can achieve this properly..."

"...battery testers that test a battery under no load do not accurately simulate the battery's performance in operating conditions..."

"...under load, the battery shall perform in accordance with the battery manufacturer's specifications..."

NFPA 72 (2016) Chapter 14 (14.4.3.2, 9 (4))

"Load testing can be by means of an artificial load equal to the full fire alarm load connected to the battery."

INSTRUCTIONS FOR USE

- Turn on power switch (located to the right hand side of the unit)
- Select the type of battery to be tested by pressing the MODE key until the LED next to the correct battery type is illuminated
- Connect the test leads to the battery terminals ensuring a good connection with the red lead connecting to the positive terminal (+) and the black lead connecting to the negative battery terminal (-)
- Press the TEST key
- LEDs will flash in sequence indicating the test is in progress. When the test is complete one LED will remain lit indicating the battery's state of charge or remaining capacity
- Make two tests at five second intervals to verify that the battery has stabilised and is delivering consistent power
- Turn off power switch after battery is disconnected



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