

Spectro Modular Battery Rapid-Tester



DON'T LET A BATTERY STOP YOU

- **More than testing CCA:** The Resistance Test alone does not provide reliable battery state-of-health readings as CCA tends to stay high while the capacity can drop below usable levels.
- **Measured in Reserve capacity or Ah:** capacity fade depicts growing rock content reducing energy storage.

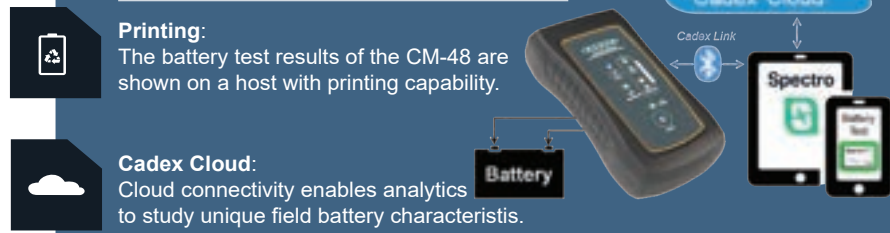


PARAMETER

3-48V Capacity **27.5-125Ah**

CCA **300 - 1250** Test Time **15 Sec**

CONNECTIVITY



BATTERY TESTING SPECIFICATIONS

- **Application:** A compact, non-invasive, wireless battery diagnostic tool equipped with cloud support and multi-model electrochemical impedance spectroscopy (EIS) for precise battery health assessment. Designed for automotive warranty and aftermarket services, it consolidates with third-party workshop diagnostic software maintenance systems via API. Features multiple test modes suitable for fleet pre-delivery inspections, dealer warranties, and aftermarket services.
- **Model:** Spectro Modular, Product SKU#: 11-500-0200-00
- **Market:** Automotive starter batteries:
 - 12V lead acid; flooded (EFB) and AGM (Gel)
 - 12-48V lithium-ion; model-specific profiling required
- **Operation:** Rechargeable internal battery, good for 250 tests and up to 12h continuous use
- **Capacity:** Classified; pass/fail threshold (set to 40%)
- **CCA:** In Amps, %, Pass/Fail (set to 50% SAE). Cranking units for: CA;EN;IEC;DIN;BCI;MCA
- **Voltage:** Shown in 3-digit readout
- **Temperature:** Degree Celsius and Degree Fahrenheit; selectable
- **Messages:**
 - Good Battery
 - Good battery – Recharge
 - Poor SoC (%)
 - Replace Battery (Poor RC)
 - Replace Battery (Poor CCA)
 - Replace Battery (Poor RC+CCA)
 - Replace Battery (High Resistance Detected)
 - Charge and Re-test
 - Surface Charge Detected - Re-test after self-discharge
- **Test Range:**
 - Capacity: 27.5–125Ah; Reserve Capacity (RC) 55–250 min.
 - CCA: 300–1250 CCA (SAE Standard)
 - State-of-Charge in percent
 - Built-in battery profiling
 - Stores up to 1000 test results
- **EIS Scan:** Excitation range: 16–2,048Hz
- **Test Time:** Under 30 seconds
- **Dimensions :**

	Unit	Package
Depth	7.16"; 182mm	12"; 30.5 mm
Width	3.78"; 96mm	13"; 33mm
Height	1.85"; 47mm	4.6"; 11.4mm
Weight	0.94 lb; 430 g	3.2 lb.; 1.46 kg
- **Port:** USB-C, also used for charging with 110–240VAC, 50–60Hz AC power supply DB15 with 1 meter test cable (39.7")
- **Battery:** internal Li-ion battery; 21700, 5Ah
- **Connectivity:**
 - Wi-Fi 802.11 b/g/n (up to 150Mbps at 2.4GHz)
 - BLE V4.2 (FCC, ISED, CE mark and Bluetooth QDID)
 - Cadex Link (Operating Application)
 - Compliant with OEM & Aftermarket 3rd party workshop diagnostic/maintenance Software systems over API
- **Environment:**
 - Temperature: -10°C to +45°C (14°F–113°F) Humidity: 10–80%
 - Short-Term (up to 30 days) at -20°C to +30°C (-4° to 86°F)
 - Humidity: Non-condensing
 - Long-Term (1-3 months +) at -20°C to +25°C (-4° to 77°F)
 - Humidity: Non-condensing
- **Approval:** Tested and approved to comply with CSA/UL/CE standards. RoHS. REACH, RED, WEEE, ISTA 3A, IP52 and FCC Type A compliant
- **Warranty:** Cadex warrants the device against defective materials and workmanship for a period of two (2) years from the original purchase date
The cable and clamp carries a one (1) year warranty.
- **Internal Battery Operating Time:**
 - Minimum of 250 continuous test cycle between charge
 - Up to 12 hours of continuous testing between charge
- **Capacity (State Of Health):**
 - Good (40%–100%)
 - Poor (0%–40%)
- **Cold Cranking Amps (CCA):**
 - Good (50%–100%)
 - Poor (0%–50%)
- **CCA Standards:** CCA (SAE), CA, EN, IEC, DIN, BCI, MCA
- **Test Result Message:**
 - Good Battery
 - Good battery -Recharge
 - Replace Battery (Poor RC)
 - Replace Battery (Poor CCA)
 - Replace Battery (Poor RC+CCA)
 - Replace Battery (High Resistance Detected)
 - Charge and Re-test
 - Re-test after self-discharge (Surface Charge Detected)