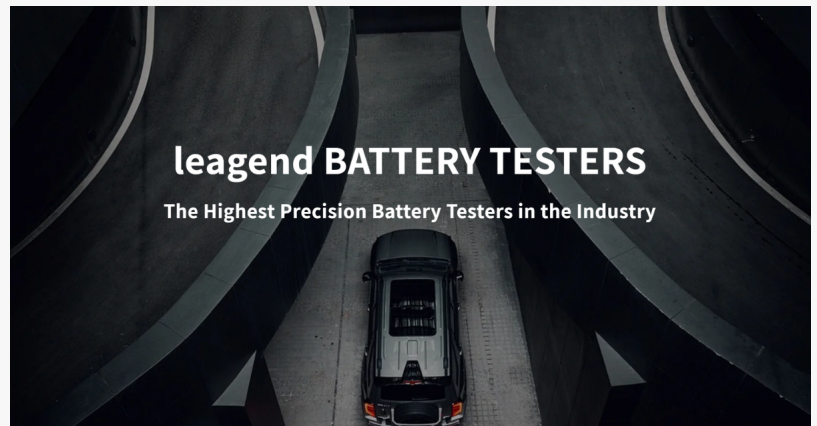


Appraising the Technical Capabilities of leagend BA640 and Battery Testing Range

This release outlines leagend BA640's technical features and situates it within leagend's broader diagnostic toolkit.

NEW YORK, NY, UNITED STATES, July 9, 2025 /EINPresswire.com/ -- Accurate battery testing across multiple voltage levels remains essential for automotive, marine, industrial, and fleet maintenance operations. leagend BA640 Color-Screen Battery Tester provides a versatile, color-display solution to diagnose 6V, 12V, and 24V

lead-acid batteries and related vehicle electrical systems. This release outlines leagend BA640's technical features and situates it within leagend's broader diagnostic toolkit.



leagend battery testers

“

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Arthur Kingsly

Key Technical Features of leagend BA640

Multi-Voltage Diagnostic Support

leagend BA640 accommodates 6V, 12V, and 24V lead-acid batteries—including flooded, AGM, GEL, and EFB types—while assessing critical metrics such as cold-cranking amps (CCA), internal resistance, voltage, State of Charge (SoC), and State of Health (SoH). It also evaluates starter and charging systems for enhanced system-level insight.

Color TFT Display and Real-Time Graphing

A 2.8 color TFT screen visualizes voltage curves in real time, allowing operators to monitor dynamic changes during testing. The device can save up to 120 seconds of curve data and replay historical trends for deeper analysis.

Data Storage and Export Options

Capable of storing up to 1,400 historical records across battery, starter, and charging tests (350 per category), leagend BA640 enables detailed service tracking. Test results can be exported via

USB cable for record-keeping.

Quick-Test Functionality

A one-key quick-test feature initiates rapid battery diagnostics or switches to real-time voltmeter mode, suitable for batch or preliminary screening in busy environments.

Integrated Protection

The unit includes safeguards for short-circuit and reverse-polarity conditions, improving reliability and operator safety.

Multilingual Support & Operating Range

Supporting English, French, Dutch, German, Spanish, Italian, Chinese, Japanese, Korean, Russian, Portuguese, Polish, and Finnish, leagend BA640 operates in temperatures from -10°C to 60°C and stores between -20°C and 70°C .

Position within [leagend's Battery Testers](#)

leagend BA640 complements leagend's comprehensive battery-testing lineup

leagend BA1000 leagend BA2000 – Provide 12V/24V testing with thermal printing for service documentation.

leagend BA4000 – A tri-voltage model featuring both print and memory functions.

leagend BA510 leagend BA550 – Offer color display diagnostics for clearer visual feedback.

leagend BA2001 – Includes LiFePO₄ compatibility and QR code-enhanced reporting.

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BA640

leagend BA640

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BA4000

Lithium-compatible series (e.g., leagend BA106) – Designed for specialized starter battery chemistries.

Within this range, leagend BA640 balances advanced diagnostic functions—such as dynamic curve display and multi-voltage support—with easy data navigation, making it suitable for both professional workshops and mobile technicians.

Operational Contexts and Use Cases Automotive Workshops

Quick access to voltage curves helps identify alternator issues or weak battery performance during routine services.

Fleet and Heavy-Duty Vehicle Maintenance

The 24V capability supports diagnostics on trucks and large tractors, while historical data logging supports maintenance scheduling.

Marine and RV Battery Systems

Evaluating 6V and 12V battery banks in dual-system setups ensures reliable power management during seasonal operation.

Industrial UPS and Backup Power Infrastructure

Real-time curve logging and multi-chemistry compatibility facilitate analysis of backup batteries in critical power systems.

Workflow Integration and Reporting

Technicians connect [the leagend BA640](#) to a battery, and a single key press initiates either a full

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BA1000

leagend BA1000

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BA510

leagend BA510

test or voltage monitoring. The TFT display offers immediate visual feedback, while testers can scroll through past records. Data download via USB supports archive creation or integration into diagnostics software.

This workflow aligns with mobile and workshop environments where clear visuals and fast result interpretation are imperative.

[About leagend](#)

Founded in 2005, leagend is a leading technology manufacturer focused on developing advanced automotive diagnostic tools and battery management solutions. The company offers a diverse portfolio covering OBD II diagnostic devices, high-accuracy battery testers, energy-efficient battery monitoring systems, and intelligent multi-stage battery chargers. Designed for automotive, industrial, and energy infrastructure applications, leagend's products help optimize performance, enhance safety, and support reliable power management worldwide.

Arthur Kingsly

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