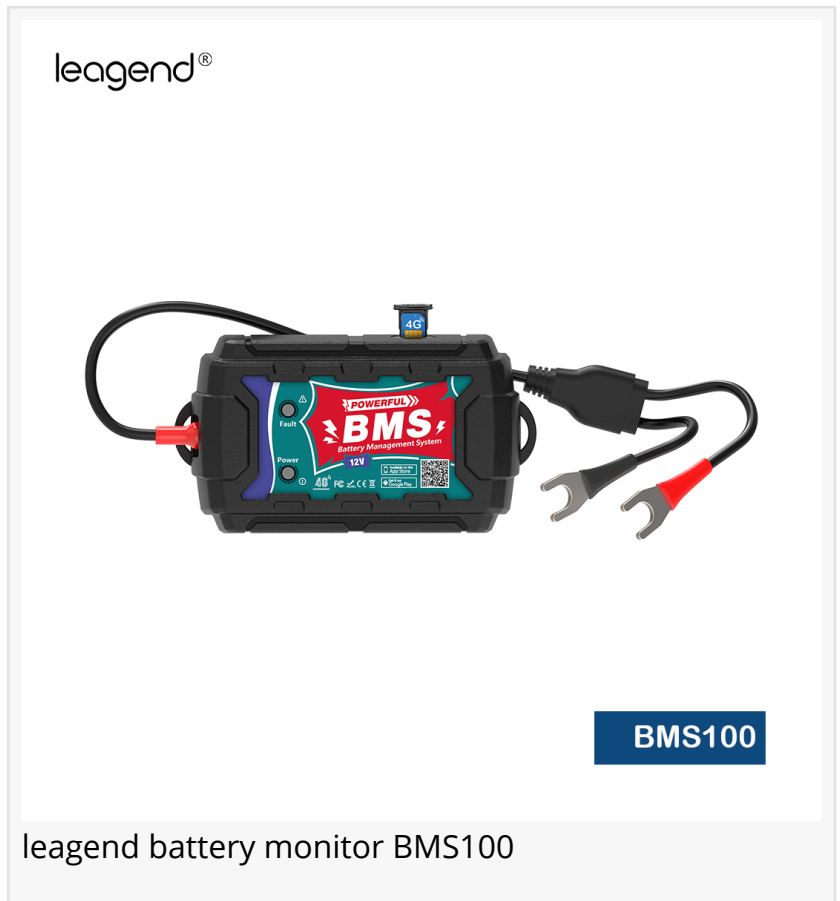


leagend BMS100 Sets New Standard for Real-Time Battery Monitoring in High-Demand Environments

leagend officially debuts its BMS100 Cloud-Connected Battery Monitor, for real-time remote monitoring of 12V and 24V battery systems.

NEW YORK, NY, UNITED STATES, July 20, 2025 /EINPresswire.com/ -- leagend officially debuts its BMS100 Cloud-Connected Battery Monitor, a rugged, intelligent device engineered for real-time remote monitoring of 12V and 24V battery systems through 4G and Wi-Fi connectivity. As the industry's first 4G-enabled battery monitor, leagend BMS100 offers cloud-based insights tailored for critical power applications—from data center UPS arrays to distributed energy storage, telecom backup, motive equipment, and widely deployed fleet infrastructure.



Reinventing Battery Oversight with Cloud Intelligence

At the heart of leagend BMS100 lies seamless data-to-cloud integration. Equipped with Wi-Fi and cellular 4G modules, the device securely transmits vital battery parameters—such as voltage, internal resistance, CCA (Cold Cranking Amps), State of Charge (SoC), State of Health (SoH), and temperature—to Leagend's cloud platform.

Users can access this data on demand via mobile apps (iOS/Android) or web-based dashboards, offering a fully remote, 24/7 overview of battery fleets.

This level of continuous visibility empowers operations to forecast battery degradation, schedule proactive maintenance, and avoid costly service interruptions. In environments where even a

single battery failure could halt operations—like hyperscale data centers or ESS installations—leagend BMS100 becomes an essential predictive asset.

Precision Monitoring for Business-Critical Systems

leagend BMS100's advanced sensing capabilities deliver actionable insights across a diverse battery spectrum:

Voltage tracking across a 6–32V range, supporting both 12V and 24V systems

Internal resistance and CCA measurement, essential for evaluating starter batteries

SoC and SoH analytics, enabling early detection of capacity loss or degradation

Thermal monitoring, safeguarding against temperature-driven failures



As the industry's first 4G-enabled battery monitor, leagend BMS100 offers cloud-based insights tailored for critical power applications"

Arthur Kingsly

Historical data storage in the cloud, for trend analysis and regulatory compliance

Leveraging minimal bandwidth (suitable for low-cost SIM data plans) and drawing under 1.5mA during operation, leagend BMS100 is optimized for remote, off-grid, or power-constrained deployments.

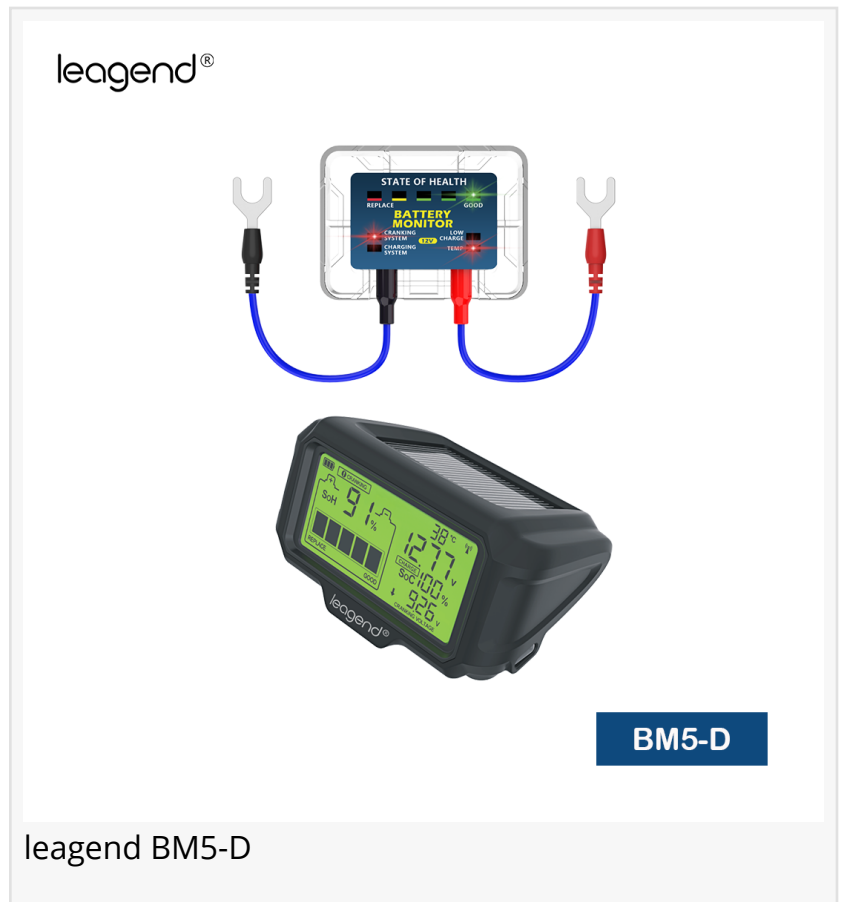
Built-In Safety and Autonomy

leagend designed leagend BMS100 with industrial-grade durability in mind. The unit includes: Short circuit and reverse connection protection;

A wide operating temperature range of -40°C to +80°C;

Ultra-efficient power management, drawing approximately 1.5mA to minimize battery impact.

These features allow leagend BMS100 to operate autonomously in harsh environments—like telecom base stations, marine equipment, remote solar farms, or backup generator arrays—without draining the batteries it monitors.



leagend BM5-D

Critical Use Cases

Data Center UPS Systems

For power infrastructure that relies on battery-backed UPS solutions, leagend BMS100 provides early warning alerts before serious failures. Staff can monitor parameters like internal resistance spikes or CCA drops, and replace compromised modules before they trigger outages or breach service-level agreements.

Energy Storage Installations

In solar, wind, and hybrid microgrid configurations, batteries are often dispersed across remote sites. leagend BMS100 keeps each string connected to a unified cloud dashboard, supplying real-time diagnostics and logging. AI-enhanced alerts flag abnormalities—optimizing cycles and reducing replacement costs.

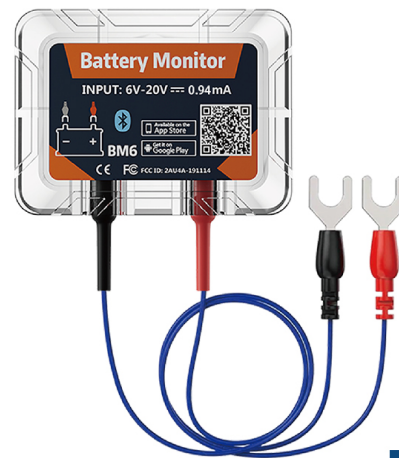
Fleet, Telecom & Industrial Deployment

Whether managing delivery vehicles, power backup at telecom towers, or off-grid machinery, leagend BMS100 delivers simplicity: clamp it on the battery, activate connectivity, and view live health data via app or browser—no infrastructure overhaul required. OEMs can integrate leagend BMS100 into their designs via agent-level branding, API access, and hardware customization.

Seamless Integration & Scalability

Designed for rapid deployment, leagend BMS100 scales efficiently for dozens to thousands of batteries:

leagend®



BM6

leagend BM6



leagend battery monitors

leagend®

leagend

Easy installation: Simple connections, no specialized tools needed.

Auto-detection firmware: Device self-configures during commissioning, minimizing field work.

Scalable architecture: Single control panel handles dispersed monitored devices, enabling fleet-wide analytics.

IT-grade security: Cloud communication uses encryption and secure credentials to meet enterprise-grade standards.

B2B Advantages: Lower Costs, Higher Reliability

Deploying leagend BMS100 helps companies achieve tangible benefits:

Reduced maintenance expenses: Remote diagnostics limit unnecessary site visits.

Extended battery service life: Trend analysis prevents premature replacements.

Data-driven reliability: Timely alerts ensure systems meet uptime demands.

Synergy with leagend Ecosystem

[The leagend BMS100](#) seamlessly integrates with leagend's broader battery solutions—like [leagend BM5-D](#) and [leagend BM6](#)—offering end users a comprehensive pathway to battery intelligent lifecycle management from installation to decommissioning.

About leagend

leagend is a technology-driven top manufacturer specializing in advanced battery monitoring, diagnostic tools, and intelligent power management solutions. With over two decades of experience, leagend delivers innovative products designed to enhance battery reliability and operational efficiency across critical sectors such as energy storage, data centers, automotive, and industrial applications. The company is committed to driving innovation and providing scalable solutions that support the evolving needs of global power infrastructure.

Arthur Kingsly

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