

POWERPS SONIC[®]

TRUSTED BATTERY SOLUTIONS

Medical

Mobile Equipment



Medical
Carts



Hospital
Beds



Patient
Monitors

Battery Solutions Trusted by Leading Medical OEMs

Certified performance for critical care.



Mobile Equipment

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Introduction to Power-Sonic

For over 55 years, Power-Sonic has been at the forefront of energy storage solutions, delivering advanced battery technologies trusted worldwide.

With a proven legacy of reliability, we provide sealed lead-acid and lithium batteries engineered for demanding environments. Our expertise, stringent quality standards, and global supply chain services make us the partner of choice for OEMs and integrators. Our portfolio spans sealed lead acid and lithium iron phosphate technologies, all engineered for reliability, safety, and regulatory excellence.



Mobile Medical Power, Ready When It Matters

Mobile medical equipment keeps modern care moving. From clinical carts to hospital beds and patient monitors, these devices must run safely wherever the patient is, not just where outlets are. Batteries in this environment face strict standards, constant readiness, and frequent charge cycles.

Power-Sonic designs medical batteries to comply with key standards such as **UL1973**, **IEC 62133**, and **UL2054**, simplifying approvals and safeguarding caregivers and patients. Lightweight LiFePO4 options reduce equipment weight and extend service life, while proven SLA chemistries deliver dependable standby power for controlled, predictable operation. The result is clean, continuous power that supports patient safety and clinical uptime across wards, corridors, and transport.



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Top 3 Applications

Medical Carts



Mobile medical carts carry point-of-care diagnostics, medication dispensing, and patient information entry devices all requiring uninterrupted power. Interruptions slow clinicians and impact patient flow. Batteries must provide long run times, frequent cycling, fast charging, and accurate state-of-charge visibility for shift-ready operation. Power-Sonic's LiFePO4 ranges deliver high cycle life at about half of the equivalent lead acid weight, with integrated BMS protection and optional Bluetooth monitoring for health tracking and on/off control. These traits keep carts light, ready, and safe in busy wards.

Hospital Beds



Electrically actuated beds rely on reliable power for positioning, rails, nurse-call, and emergency egress. Requirements include dependable standby, low maintenance, and predictable float performance. Power-Sonic's LiFePO4 ranges provide robust standby capability and extended design life, supporting regular movements and occasional deep discharges without compromising safety or comfort.

Patient Monitors



Bedside and transport monitors demand clean, stable power for sensitive electronics. Batteries must be safe, maintenance-friendly, and compliant. Power-Sonic medical solutions span lithium and SLA options, designed for uninterrupted performance in monitoring and emergency devices, while aligning with recognized medical standards and documentation to streamline regulatory approvals and clinical use.

Why Power-Sonic Makes the Difference

- **Safety-critical reliability:** Proven, medical-ready batteries that support patient safety through reliable performance and rigorous quality control.
- **OEM co-engineering:** Collaborative engineering with OEMs to meet exact voltage, footprint, and runtime needs, backed by clear documentation for compliance.
- **Continuity of care:** Flexible supply and technical support that keep critical equipment powered, maintained, and ready for every shift.



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PSL Series



PSL-SC LiFePO4 Series



Key Features:



- Integrated BMS with smart cell balancing for protection and consistent capacity.
- Fast charging without the need for float, with constant power delivery across the discharge curve.
- Flexible system design with approved series or parallel configurations for higher voltage or capacity.
- Long cycle life with stable performance, even at higher operating temperatures.



Technical Highlights:

Models such as the **PSL-SC-1270** & **PSL-SC-12110** provide fast charging with constant power delivery for mobile platforms. Approved configurations allow up to six batteries in series or up to four in parallel.

PSL-SC-1270 and **PSL-SC-12110** are recommended as strong replacements for our PS-1270, 1280, 1290, PG-12V9, PDC-1285, PHR-1236 SLA batteries. Talk to a Power-Sonic representative for more information.

Application Fit:

Lightweight LiFePO4 reduces cart weight and improves ergonomics, while high cycle endurance supports daily shift cycling.

The integrated BMS safeguards against over-charge and over-discharge, and series or parallel flexibility helps meet exact cart application or bed voltage and runtime requirements.

PSL-BT LiFePO4 Series



Key Features:



- Combine long cycle life with smart Bluetooth connectivity
- Bluetooth connectivity for remote state-of-charge, health monitoring, and on/off control.
- Integrated BMS for protection, including over-current, over-charge, over-discharge, and over-temperature.
- Up to 10x more cycles than equivalent lead acid at about 40% of the weight, improving mobility and total cost of ownership.



Technical Highlights:

Models such as the **PSL-BT-48320-GC2** & **PSL-BTP-121000-G24** provide Bluetooth connectivity with integrated BMS for protection.

The Bluetooth app is free and can be download from the Apple Store, Google Play Store, and the Power-Sonic website.

Application Fit:

Bluetooth visibility helps biomedical teams verify readiness without removing panels, supporting shift turnover and preventative maintenance. High cycle life handles frequent cart charge cycles, while low weight improves maneuverability in clinical spaces. Protective BMS functions align with safety needs for beds, carts, and monitors used near patients.

PSL-CP LiFePO4 Series



Key Features:



- BMS multi-function design balances the battery cells optimizing battery performance
- Communication port for real-time harwired system data
- Maintenance free
- Up to 10 times more cycles than lead acid batteries



Technical Highlights:

The PSL-CP family includes 12.8 V communication enabled models such as the **PSL-CP-12500**, with higher-voltage options like the 24 V **PSL-CP-24110**. The range pairs LiFePO4 chemistry with a dedicated communications interface for protocol-driven integration and diagnostics, supported by rigorous quality controls through manufacturing.

Application Fit:

LiFePO4 performance with an intelligent BMS and a hardwired communications port delivers real-time state-of-charge and diagnostics. Lightweight construction and quicker charging support shift readiness and easy maneuverability. The 12.8 V format integrates with common cart architectures, with 24 V options for higher power or runtime, helping biomedical teams maintain uptime and patient safety.

Rev4: 02/26

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Clinical Value at a Glance



OEM trust and partnerships: Power-Sonic collaborates with device manufacturers to tailor batteries to voltage, footprint, and runtime requirements, helping accelerate innovation and ensuring a precise system fit.

Tailored supply chain services: Support for OEMs and distributors includes certified product lines and responsive delivery for medical device supply channels. This aligns with hospital procurement, scheduled maintenance, and fast replacements.

Reliability and patient safety: Medical-grade solutions are engineered for uninterrupted performance in monitoring and emergency devices and are designed to comply with key medical standards, supported by documentation to simplify approvals.

More reasons to choose Power-Sonic:

- Long-life LiFePO4 reduces total cost of ownership for daily-cycled carts.
- Long-life lines available where extended standby is required.
- Dedicated LiFePO4 charger options help maintain battery health and safety.
- Published warranties and datasheets support lifecycle planning and quality assurance.

Power care with confidence. Speak with Power-Sonic's medical battery specialists to select or customise the ideal power solution for your carts, beds, and mobile monitors. Get technical guidance, compliance documentation, and supply options aligned to your clinical workflow.

Contact Power-Sonic to start your project today.

Scan to Start Your Enquiry



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