

# SurePower™ System

## Unprecedented, cost-effective defibrillator battery management



Clinicians need to be sure batteries that power life-saving equipment will work when needed. Defibrillator batteries are often replaced unnecessarily in order to ensure dependable performance. The ZOLL® SurePower™ System provides clinicians with confidence that batteries will meet user demands and removes the uncertainty that drives costly maintenance practices.

### Runtime Eliminates Guesswork

Caregivers need to know how long the defibrillator battery will run. Conventional Pass/Fail indicators do not account for the differences between a new battery and old batteries about to fail. The SurePower and SurePower II Battery Packs eliminate guesswork by communicating in understandable language: "Runtime"—30 minutes remaining, versus "Capacity"—25% remaining.

### Reduce Costly Battery Replacements

Defibrillators—and defibrillator batteries—are located in various environments that pose unique demands. As a result, batteries deployed to devices on crash carts or in other low-use environments are replaced prematurely. With SurePower and SurePower II Battery Packs, remaining battery life can be quickly determined by pressing a button on the battery, helping users eliminate premature disposals in light-use areas.

### An Automated Approach

Battery management is typically a time-consuming, manual task. Rotating battery packs through the SurePower Charger Station as a part of your periodic defibrillator maintenance program is now all that is required. The system automatically tests and calibrates the battery as required, and records its status and use history in the background.

**ZOLL®**



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## SurePower System Brings Value and Efficiency to Battery Management

### SurePower Battery Pack

The SurePower Battery Pack has four times the energy density of traditional battery chemistries. Its lithium-ion chemistry keeps pace with the growing demands of today’s defibrillators.

- Longer life cycles and better capacity retention.
- Eliminates guesswork by indicating runtime instead of non-specific capacity.
- On-board memory stores both charging and use history.

### SurePower Charger Station

The SurePower Charger Station is the cornerstone of this innovative maintenance system. With the simple exchange of SurePower batteries in and out of the charger, calibration is automated and history of use is recorded.

- Icon-driven interface reports state of batteries.
- Charges full range of ZOLL defibrillator batteries: SurePower, 4410, 4410 Smart, 4410 SmartReady, and XL batteries. Designed to accommodate future chemistry variants.

## Specifications

### SurePower Battery Pack

**Chemistry:** Lithium-ion  
**Length:** 16.5 cm (6.5 in.)  
**Width:** 5.7 cm (2.25 in.)  
**Height:** 4.4 cm (1.75 in.)  
**Weight:** 0.77 kg (1.7 lbs)  
**Voltage:** 10.8 Vdc  
**Capacity:** 5.8 Amp Hours  
**User Interface:** Display Button  
**LED Indicators:** Runtime, Calibration Required, Fault  
**Temperature:**  
**Operation:** 0° to 50°C (32° to 122°F)  
**Optimal Charging:** 15° to 35°C (59° to 95°F)  
**Storage:** -30° to 70°C (-22° to 158°F)  
**Charge Time:** 4 Hours (for fully depleted battery)

### SurePower II Battery Pack

**Chemistry:** Lithium-ion  
**Length:** 17.8 cm (7.0 in.)  
**Width:** 9.3 cm (3.7 in.)

**Height:** 3.0 cm (1.2 in.)  
**Weight:** 0.64 kg (1.4 lbs)  
**Voltage:** 11.1 Vdc  
**Capacity:** 6.6 Amp Hours  
**User Interface:** Display Button  
**LED Indicators:** Runtime, Calibration Required, Fault  
**Temperature:**  
**Operation:** 0° to 50°C (32° to 122°F)  
**Optimal Charging:** 15° to 35°C (59° to 95°F)  
**Storage:** -30° to 70°C (-22° to 158°F)  
**Charge Time:** 4 Hours (for fully depleted battery)

### SurePower Charger Station

**Length:** 40.6 cm (16 in.)  
**Width:** 27.9 cm (11 in.)  
**Height:** 15.5 cm (6 in.)  
**Weight:** 6.8 kg (15 lbs) (without batteries)  
**Power Required:** 90-265V AC (50-60 Hz)  
**Power Consumption:** 200 Watts Maximum  
**Number of Battery Wells:** 4

### Temperature:

**Operation:** 0° to 50°C (32° to 122°F)  
**Optimal Battery Charging:** 15° to 35°C (59° to 95°F)  
**Storage:** -40° to 70°C (-40° to 158°F)  
**Humidity:** 5% to 95% Relative Humidity  
**User Interface:** Test Button  
**Indicators:** AC On, Battery Charging, Battery Ready, Battery Testing, Fault  
**Compatible with:** ZOLL Sealed Lead Acid and Lithium-Ion Batteries, including SurePower Battery, 4410 Battery, 4410 Smart Battery, 4410 SmartReady, XL Battery.  
**Charging Protocols:** AutoTest, QuickCharge, FloatCharge, Manual Test  
**Communications:** SMBUS, RS-232

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