

LIFEGUARD[®] 3

The Charger You Designed



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The LIFEGUARD® 3 is a reliable battery charger that is rugged, easy to install, operate, and maintain. A charger that will keep your batteries delivering peak power for many years. Sophisticated but simple. LIFEGUARD® 3 ferroresonant chargers deliver the power and the flexibility you demand at a price to fit your budget.

Simple

The simple, sophisticated choice for your charger solution is LIFEGUARD® 3. The LIFEGUARD® 3 charger is not only fully automatic but also backed up by sophisticated features that ensure your batteries are running at their peak performance.

LIFEGUARD® 3 is designed to protect against either charging problems or employee errors. With features like automatic refresh charge, automatic start, automatic shutdown, stop push button, wrong battery protection, and cool-down timer, just to name a few, LIFEGUARD® 3 is monitoring the charging cycle so you don't have to.

Since LIFEGUARD® 3 controllers utilize dv/dt di/dt termination, which monitors the time rate of voltage change (dv/dt) and time rate of current change (di/dt) to calculate the rate of energy supplied to the battery, you can take confidence in knowing that your battery is always fully charged.

Simple isn't it? You see it's like having the best of both worlds (safe, error-free power) in one simple unit.

Efficient

LIFEGUARD® 3 ferroresonant chargers are by design inherently efficient. In addition to being efficient, LIFEGUARD® 3 chargers are fully rated. With an 18% start rate and 4-5% finish rate, the LIFEGUARD® 3 chargers are built to return 110% of your battery's rated capacity in an eight-hour period. These output rates can be adjusted up or down 15% to handle even the most rigorous applications.

The LIFEGUARD® 3 charger series has features that also help control energy costs, like: charge time delay, charge data monitoring, a watering control signal, and real-time clock.

Let's take a closer look at the LIFEGUARD® 3's features and added benefits:

- **Charge Time Delay** – A turn of the dial enables you to delay the start of a charge for up to nine hours. This function can be used to eliminate detrimental opportunity charging, to allow cool-down time before charging, or to take advantage of cost savings by charging at off-peak hours. **Added benefit:** It's easy to take advantage of electrical cost savings.
- **Charge Data Monitoring** – This sophisticated system monitors and stores charging data so information can be displayed during or after the charge cycle. **Added benefit:** Stored charging data facilitates a productivity analysis.
- **Watering Control Signal** – LIFEGUARD® 3 chargers will provide a logic signal to actuate an automatic watering system. **Added benefit:** Reduced labor costs for watering.
- **Real-Time Clock** – An optional feature is the real-time clock, which allows the charger to auto power up at specific times – times you program in based on your unique needs. **Added benefit:** Reduced energy costs.

Reliable

Batteries should always be fully charged and ready to deliver power when needed. That's why you designed the LIFEGUARD® 3 chargers with efficient, reliable, ferroresonant technology. By design, ferroresonant chargers have fewer parts, i.e., fewer opportunities for failure. Let the LIFEGUARD® 3 charger take the guess work out of the charging process.



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How you ask? By optimizing features like:

- **Auto Start/Stop** – When a battery is connected to the charger, the charger starts automatically after a five-second delay. The LED panel indicates when the charger is in the charge cycle, when it has reached the 80% charge point and when the charge cycle is complete or has terminated due to a fault.
Added benefit: No user intervention required.
- **Backup Timer Protection** – If the battery has a problem during the charge cycle, two backup timers protect against overcharging. If the battery doesn't reach 80% of charge in nine hours, or if the charge is not complete in six hours after 80% charge, the charger shuts down and a fault is indicated.
Added benefit: Protects your battery from being overcharged.
- **Negative Slope Termination** – The charge automatically terminates if a negative voltage slope is detected. Negative slope indicates that a battery is approaching thermal runaway.
Added benefit: Prevents serious battery damage caused by overheating.

The LIFE GUARD® 3 offers simple, efficient, reliable power.

HAWKER's Power Solutions

HAWKER is the source for power/charger solutions to keep your batteries performing at maximum capacity for the maximum number of cycles.

LIFEPLUS® TC3 – High-Frequency Power Source

LIFEPLUS® TC3 chargers are the result of over two decades of high-frequency smart charging experience. The LIFEPLUS® TC3 features plug-and-play flexibility – adjusting automatically to the needs of a broad range of batteries – and its own IP address for data networking. LIFEPLUS® TC3 high-frequency switching technology offers the highest conversion efficiency and power factor, significantly reducing electrical consumption and demand charges.

POWERGUARD® CFR – The POWERGUARD® CFR charger is designed to charge a valve-regulated (VRLA) gel cell battery. POWERGUARD® CFR is an advanced ferroresonant industrial battery charger that controls its current output throughout the entire battery charging cycle. This type of technology is referred to as CFR or controlled ferroresonant technology. POWERGUARD® CFR chargers are rated to return 105% to 106% of nameplate rating in 8-10 hours.

For the right HAWKER power solution to meet your needs, please call **1-877-7HAWKER** for a HAWKER representative in your area.





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