



### **LifeSpeed™ 3000**

#### **High-Speed, Smart-Charger**

LifeSpeed™ 3000 is the latest addition to the HAWKER charger product line.

LifeSpeed 3000 is a high frequency, fast charger that is "At The Ready" to charge, anytime.

LifeSpeed 3000 assesses each battery's charging requirements through its patented intelligent smart charging technology. LifeSpeed 3000 utilizes patented AccelRate® technology to create a unique charge algorithm, which combined with the high efficiency of HF IGBT technology charges your batteries faster, cooler, and at a dramatically lower cost.

### **Technology**

The LifeSpeed 3000 high-speed, smart-charger diagnoses the condition of each and every battery, each and every time that battery is placed on charge.

LifeSpeed 3000 chargers will automatically adapt to battery voltage, battery AH capacity, and state of charge. Because the LifeSpeed 3000 charger bases the recharge profile on the actual characteristics of each battery being charged, not its rated capacity, it can charge a universal range of batteries from 24V, 36V, and 48V. LifeSpeed 3000 can also communicate with the battery in real time.

LifeSpeed incorporates AccelRate technology to achieve a superior high-speed charge. Through a patented algorithm, the AccelRate algorithm reduces the natural resistance of the battery by inserting at precise intervals discharge cycles into the charging profile. This homogenizes the ion field around the plates, promoting a far better distribution of the active ions over the entire charging area.

Therefore, a substantially higher charging current can be applied and maintained, resulting in a much faster charge, with a controlled increase in the electrolyte temperature.

With LifeSpeed 3000, batteries will be returned to a full state of charge, without excessive heat generation in approximately two hours, while greatly

### **BatteryBoss®**

LifeSpeed 3000 chargers include the electronic battery management system called the BatteryBoss®. BatteryBoss® is a compact wireless electronic device that attaches to one of the cells of the battery to provide real-time diagnostics of your battery. The BatteryBoss® measures voltage and temperature and can provide the following data –

- Battery identity, age, type, and serial number
- Number of cycles
- Total discharge time
- Equalization charges completed or omitted
- Total rest time
- Record of abnormal operating temperatures

Data stored in the BatteryBoss® can be downloaded quickly and simply. The information is transferred by infra-red signal to a Personal Digital Assistant (PDA). The software in the PDA can handle up to 30,000 downloads, satisfying even the largest fleets. The data is also transmitted directly to the charger, where it assists the charger and is available for download.

LifeSpeed 3000 chargers also permit data from the last 100 charge cycles to be viewed directly on the digital display of the charger. The data from the PDA can also be sent directly to a server via modem or wireless internet connection for a full detailed analysis of your charging profiles and battery performance.



### **Bottom Line**

LifeSpeed 3000 chargers:

- Features high energy-efficiency and a high, constant power factor to reduce operating costs.
- Fully recharges your battery 3-5 times faster than conventional units, without requiring any significant modifications to the battery. (The ATR 3030 requires dual cables.)
- Fully automatic. Wall mount or floor mount models can be used wherever or whenever a full or partial charge is required to keep your fleet "At The Ready".