



HAWKER[®]
LEADING EDGE POWER SOLUTIONS

P O W E R L I N E [™]



THE RUGGED, FULL-SHIFT POWER SOURCE

Get the most out of your equipment with the POWERLINE™ series from HAWKER®. Whether you're operating sit-down rider forklifts, walkies, or narrow-aisle lift trucks, POWERLINE™ will keep you up and running.



TOTAL INTEGRATED QUALITY



POWERLINE™ is produced in the most modern, environmentally-friendly, and quality-driven plant in the industry. At every step in production, we use the best processes and materials to achieve one goal – making POWERLINE™ the most dependable battery you can buy. Take for example our “signature system.”

Whether it's the stripe Melvin Sanchez paints on the grids he casts or the initials Earl Thompson stamps into the posts he burns – each and every person who helps build a HAWKER® battery places his or her mark of quality on it.

The quality goes in before the name goes on!

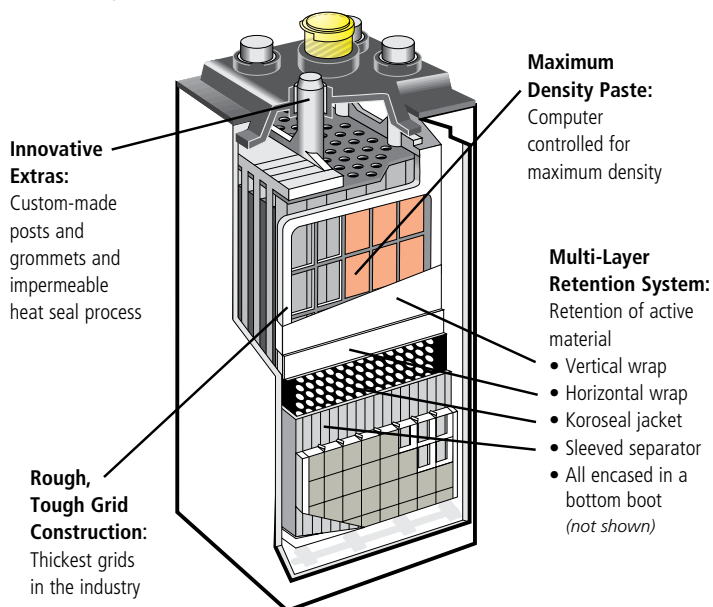
The National Standards Association of Ireland (NSAI) has also placed its mark of quality – ISO 9001:2000 Certification – on our manufacturing process.

QUALITY BY DESIGN



The foundation of the superior performance and long life cycle of a POWERLINE™ battery is based on the battery's design and construction.

Let's take a closer look at the POWERLINE™ battery's construction:



- **Thickest Grid in the Industry** – We offer a rough, tough grid construction and the thickest grid in the industry. (Our grids are matched for improved current distribution through the grid network.)
- **Densest Paste** – The pasted plate is the heart and soul of your lead-acid battery. The grids are pasted with active material that is the densest available anywhere in the industry today.
- **POWERPLUS™ Formation System** – Our revolutionary formation system uses an acid recirculation and two shot forming process. This ensures that every cell of every battery receives a uniform temperature-controlled acid bath. We also put our batteries through a full charge/discharge cycle before they ever leave the factory.
- **Multi-Layer Retention System** – Includes the horizontal wrap, vertical wrap, koroseal jacket, and all encased in a bottom boot. Wrapped plates are then sleeved in a high-quality, microporous plastic material.

ADDED BENEFITS of POWERLINE™

Let's take a closer look at the POWERLINE™ battery's added benefits:

- HAWKER®'s tough, thick grid construction reduces corrosion and generates cooler battery operating temperatures — both leading to increased battery life.
- HAWKER®'s dense pasted plate ensures long-life operation under deep cycling as well as continued, uninterrupted power.
- Being subjected to significantly lower temperatures during formation results in longer battery life.
- Sleeved separators in the Multi-Layer Retention System eliminate failures caused by separator misalignment.

**POWERLINE™ –
The Rugged, Full-Shift Power Source**



HAWKER®'S POWER SOLUTIONS

HAWKER® is the source for power solutions. Whether you're running a warehouse operation, a production line, or simply moving a couple of pallets a day, we have a product solution that can increase your productivity and save you money.

Battery Solutions

WATER LESS® – The Power to Reduce Expenses

Requiring watering just four to six times per year in normal applications, WATER LESS® combines the benefit of full power and reduced cost, without the expense of a special charger. When packaged with a comprehensive maintenance plan, WATER LESS® can help get you out of the maintenance business.

ENERGY-PLUS™ – The Ultimate Power Source

When your operation depends on a heavy-duty battery – a battery that can stand up and deliver even under the most punishing conditions, you want the ENERGY-PLUS™ battery. ENERGY-PLUS™ employs a unique multi-plate design to pack more active material – and more power – into the same space, not just added acid.



Charger Solutions

LIFEPLUS® TC3-W – High-Frequency, IONIC Smart Charger

LIFEPLUS® TC3-W chargers are the result of more than 25 years of high-frequency, smart charging experience. The TC3-W features plug 'n play flexibility to adjust automatically to the needs of a broad range of batteries. HAWKER®'s LIFEPLUS® technology offers the highest conversion efficiency and highest power factor available in the industry. This means the TC3-W series reduces your battery recharge costs, reduces water consumption, and reduces battery maintenance and repair costs.

POWERTECH™ – High-Frequency Intellicharger™

POWERTECH™ offers all of the savings of the LIFEPLUS® charger but in a simpler, single-voltage configuration and in an industrial cabinet. POWERTECH™ can recharge a wide range of multi-ampere hour batteries without any adjustments – as long as they are the same voltage.

LIFETECH™ – High-Frequency, Smart Charger

The LIFETECH™ high-frequency, IONIC charger series delivers the greatest efficiency and highest power factor available in a small, compact footprint.

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



With more than 85 years of motive power experience and innovation, **HAWKER®** offers a complete line of battery and charger motive power solutions. **HAWKER®** power solutions are designed to reduce environmental impact, lower operational costs, increase productivity, and improve customer operations.

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