



**Traction
batteries**
Hawker XFC™
**Fast charge
battery system**

Plug & Play power solution





Adapting power to today's market needs....



EnerSys® launched their range of 12 volt Hawker® XFC™ bloc batteries into the Motive Power market in 2007. The success of the Thin Plate Pure Lead technology has led to the development of a 2 volt cell range of Hawker XFC batteries to satisfy a wide range of material handling equipment requirements. With increased energy density and fast charge capability these maintenance free batteries can be used at any time and recharged whenever it is possible. Advanced communication with Hawker HF chargers, Life IQ™ and LifeSpeed IQ™, ensures long high performance and energy cost savings.

Unique construction

The Hawker XFC 2 volt cells are constructed using pure lead plates, that are much thinner than lead calcium grids. Pure lead grain structure makes the grid far more resistant to corrosion. Positive and negative plates are low impedance enabling high current flow in both discharge and recharge modes. The electrolyte is absorbed in a superior quality microporous glass mat separator with high absorption and stability designed to enhance cyclic capability. Cell boxes are highly resistant to shock and vibration.

Fast charge

Unlike conventional lead/acid batteries where the state of discharge reaches a specified level and then requires recharging for 8-12 hours, Hawker XFC is totally flexible giving increased autonomy to the user. The specific charging profile allows a rapid recharge in less than 4 hours from 60% DOD and opportunity charging as often as needed, without damaging Hawker XFC batteries. These specialized charging capabilities are standard features in the Hawker HF chargers: Life IQ and LifeSpeed IQ. The other integral part of the Hawker XFC system is the Wi-IQ®2 monitoring device

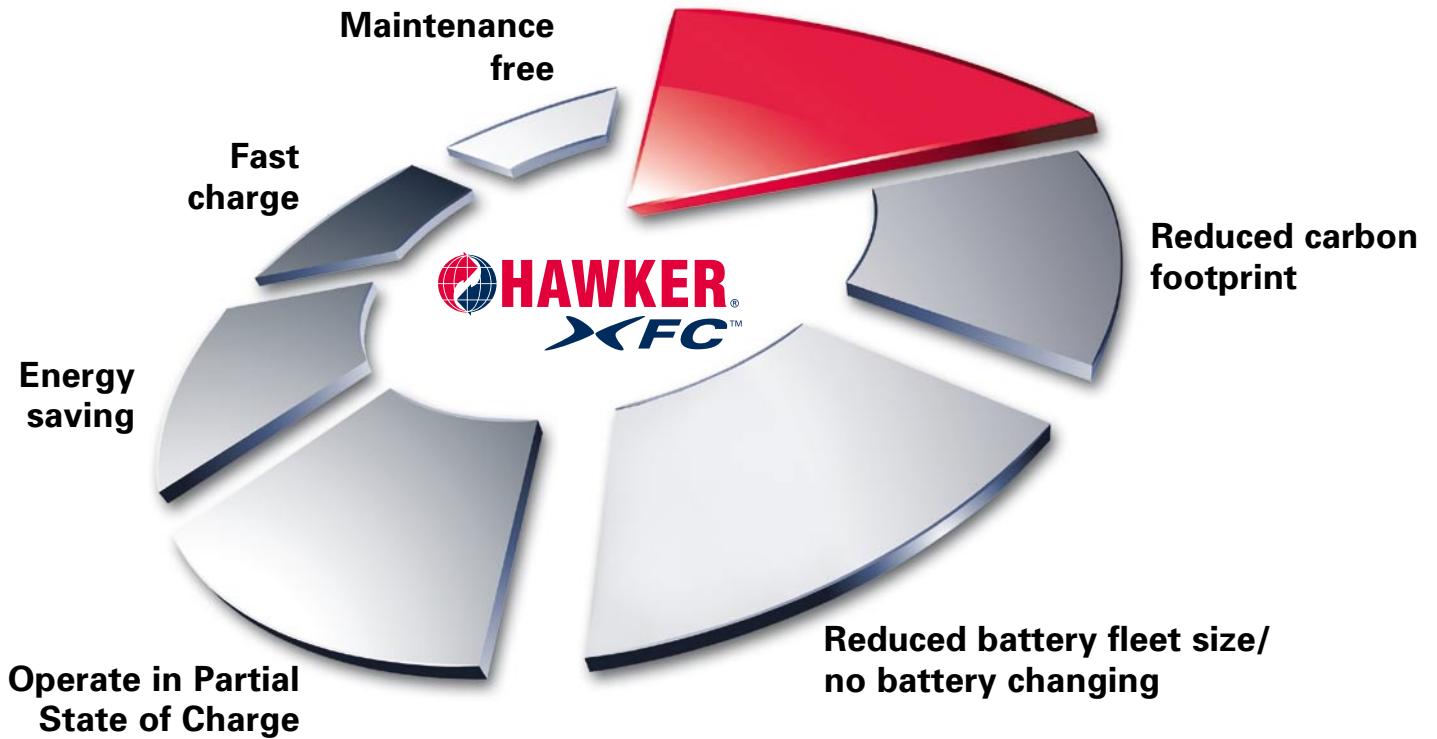
which precisely manages the charging profile to suit the state of charge and operating conditions of the battery as well as storing complete data of the battery's service life.

More applications

Hawker XFC batteries are suitable for use in the following MH (material handling) applications:

- counterbalance trucks
- reach trucks
- pallet trucks
- order pickers
- AGV's

The state-of-art technology of Hawker® XFC™ batteries allows exceptional performance and a long list of benefits compared to conventional flooded or gel batteries.



Customer benefits

- superior and stable performance even at high discharge rates (high energy density)
- operating in PSOC (Partial State of Charge) – increased truck availability
- opportunity charging whenever the truck is not used- can minimize the need for spare batteries and battery changing
- short recharge time – less than 4 hours from 60% DOD with matched Hawker IQ chargers
- totally maintenance free – no topping up
- suitable for multi-shifts operations- machine availability optimization
- excellent cycle life (up to 1200 cycles at 60% DOD)
- high energy throughput (up to 160% of C₅ per 24 hours)*
- minimum gassing-ideal for use in sensitive manufacturing areas
- environmentally friendly – reduced carbon footprint and electricity consumption due to very low charge factor

*maximum DOD must be observed

Hawker XFC – The unique battery system

Cell type	Nominal capacity C ₅ Ah	Length mm	Width mm	Height mm	Weight in kg with electrolyte
6XFC250	250	47	198	600	15.0
9XFC375	375	65	198	600	21.2
12XFC500	500	83	198	600	27.4
15XFC625	625	101	198	600	33.9
18XFC750	750	119	198	600	40.3

The designated charging rate for Hawker XFC is 0.4 C₅ giving optimum performance, recharge time and cycle life.



Wherever you do business, EnerSys® can support you with motive power energy. The Hawker® branded battery range, matched chargers and systems provide trouble free performance under the most demanding service conditions. Our strategically located manufacturing plants are efficient and responsive with a culture of continuous improvement and added value for our business partners.

EnerSys has an enviable position in technology leadership and with significant investment in research and development we intend to stay at the leading edge in product innovation. The recently developed energy solutions: Hawker XFC™ and Water Less® 20 batteries, Lifetech® and LifeSpeed IQ™ HF chargers, have defined new benefits for our customers: faster recharge, more machine availability, lower operating and investment costs, reduced carbon footprint. Our team of development engineers is driven by the desire to build the best energy solutions and works closely with our customers and suppliers to identify development opportunities. Our bias for rapid innovation means we get new products to market fast.

EnerSys's integrated sales and service network is dedicated to providing our customers with the best solutions and after-sales support for their business. Whether you require 1 battery or a complete fleet of batteries, chargers, a battery handling system and a state of the art fleet management system, you can count on us. EnerSys is the world's largest industrial battery manufacturer and we are dedicated to being the best.



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Please refer to the website address for details of your nearest EnerSys office: www.energys-emea.com

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