Intelligent HF chargers

Accurate charging at the right time: The key to efficiency

HAWKER

Lifeiq

EnerSys
Power/Full Solutions
HF technology with innovative features such as wireless communication and energy cost savings are the key to success for this new range of chargers by EnerSys®.

**HF technology saves space and increases flexibility**

EnerSys®, European leader in motive power batteries, has pioneered High Frequency charger technology for more than 20 years. Our expertise and continuous study of our customer’s needs and requirements has lead to further enhancements in our range of smart chargers. Life IQ™ incorporates a major step forward with the ability to communicate wirelessly with the battery via the Wi-IQ®, providing the optimal energy pack needed for all motive power applications. The HF technology features compact wall-mounted designs to save floor space and significantly higher electrical performances.

**Life IQ: the new generation of HF chargers by EnerSys**

This new range of smart HF chargers from Enersys combines all the existing features and benefits associated with HF technology and innovative new ones that provide the user with optimum flexibility of use.

**Life IQ, the next generation of Hawker high frequency chargers has been developed to provide the user with:**

- Lower electricity costs through improved efficiency and lower charging factor – these features will help reduce your carbon footprint
- Wireless communication between the charger and the battery via the Wi-IQ, wireless battery monitoring device.
- USB port for data download and upload
- Ethernet port for remote management and diagnostics
- Clear state of charge indication through it’s colour changing display panel
- Improved safety using arc-less connection/disconnection
- Customer programmable menu

**Precise charging at the right time**

The real-time clock lets you program the charge when you want, to take advantage of off-peak electricity tariffs, to start an equalisation charge when it is convenient and to have real dates for each event (charge, default, etc.).

Optimised design with new components, simpler assembly and lower charging factor ensure an energy efficient charge of the batteries, suitable for all battery technologies. Real time clock enables you to use the charger when the electricity is at it’s cheapest.

**Innovative features**

- The USB key enables a download of all data stored in the charger for analysis, for managing reports (eg: with Enersys contracts), via the USB port ideally positioned on the front panel of the charger.
- Upload of profile updates can easily be done via the USB port.
- The Ethernet interface (optional feature) facilitates remote management of the charger fleet. Connect the chargers to your network for access to global management. Imagine logging on to your PC and being able to interrogate the chargers whether they are located in London, San Francisco, Moscow or Verona …

**Key technologies** for charging in time
The Life IQ™ from EnerSys® goes a step further. The Life IQ offers more modern features such as the real time clock and the USB port and the optional Ethernet interface. The wireless communication feature gives this range of chargers new keys for management functions and cost savings.

Flexible and user friendly

Reaching the menus, with a wide choice of parameters and settings is very easy using the central button on the front panel. The large LCD screen constantly displays the charging status and by means of specific background colour (5 different colours) the information is visible from a wide viewing angle. It displays messages in clear text (except for coded defaults). A central button allows easy access for navigation through the menus and the central part of this button equipped with a green/red LED indicates if the charger is operating (red) or not (green).

Accurate charging for all battery technologies

• Wireless communication with the Wi-IQ. The charge is always optimised with precise adjustment of the charger to the battery according to temperature, capacity and technology. Communication occurs throughout the charge to monitor the battery temperature and compensate the voltage drop into the DC cables.
• Wide LCD Display delivering real time information on charging process and events. Information is clearly visible on the state of the art screen featuring 5 different coloured backlights.

The Life IQ charger communicates with the battery via Wi-IQ and receives all crucial data to automatically optimise the charging settings.

The Wi-IQ® installed on the battery monitors and records data of current, voltage, temperature and electrolyte level during the complete life of the battery.

COLOUR | FUNCTION
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Dark blue | Waiting status until battery connected
Light blue | Battery on charge
Light blue | Alternating, on charge and defect pump
Green | Battery charged
Red | Alternating, battery charged with defect pump or overdischarge
Green | Charger faults DF1, DF2, DF3, TH
Orange | Floating charge for AGV application

The Wi-IQ® installed on the battery monitors and records data of current, voltage, temperature and electrolyte level during the complete life of the battery.

The communication allows the user to monitor the complete charge process in real-time and the charger will make automatic adjustments in relation to the battery temperature, it will even interrupt the charge in cases of excessive temperatures.

• Suitable for all battery technologies with corresponding charging profiles:
  • Ionic (for perfect plus range)
  • Gel (for evolution range)
  • Air mix (for perfect plus, Water Less® ranges with electrolyte circulation)
  • PzM (for Water Less range)
  • Hawker® XFC™
  • wf200 (for Water Less® 20 use)
• Floating charge for AGV application
• Options of automatic water topping up kit and pump kit for electrolyte circulation systems to match these batteries (vented technology)
• Real time clock to manage the charge at the right time (eg: off-peak) and equalisation charge for example, configuration of equalisation once a week or several times a week
• Anti arcing system for safe disconnection during the charge
• Conditional charge: the charge will not start if a defined % of discharge is not reached
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.