



Intelligent
modular
HF chargers

LIFE *Speed IQ*™





Peak efficiency just in time

LIFE Speed IQ™

HF technology with innovative features such as modular design is the next step forward with the new charger range by EnerSys®.

EnerSys, global leader in industrial batteries, has over 20 years experience in pioneering High Frequency technology. The continuous study of our customers' requirements and expectations has lead to further development of the smart chargers range.

Introducing LifeSpeed IQ™ is another step forward to achieve intelligent, flexible and energy-efficient charging performance.

LifeSpeed IQ - the new generation of HF chargers

The new range of smart HF chargers – LifeSpeed IQ combines all the existing HF technology benefits and new features that assure better communications with the battery and more flexibility of use. The innovative modular design provides highly efficient charging, reliability and ease of service.

Features and advantages

| Communication | Construction | Technical parameters | Charging |
|--|---|--------------------------------|------------------------|
| Wireless communication between the charger and the battery via the Wi-IQ®2 | Modular design to enhance the efficiency and facilitate service | Multi-voltage (within a range) | Equalisation charge |
| Remote communication for LifeNetwork IQ™ fleet management system | LCD display-5 colours | Multi capacity | Conditioning charge |
| USB port for data download and upload | DC cable compensation | 3-phase | De-sulphation charge |
| Ethernet port for remote management and diagnostics | Customer programmable menu | Real time clock | Flexible recharge time |
| | | | Auto-diagnostic |
| | | | Arc less disconnect |

Optimised design with new components, simpler assembly and lower charging factor helps to reduce carbon footprint and ensures an energy efficient charge of the batteries, suitable for all battery technologies.



Advanced devices communication

LifeSpeed IQ™ is equipped with advanced communication tools. Wireless communication with Wi-IQ® battery devices allows for automatic adjustment of the charger to suit the battery age and condition. Communication occurs throughout the charge process to monitor the charging profile, battery temperature compensation and energy throughput. USB port is standard to download charger history and upload profiles and service updates. The option of Ethernet allows remote access to the charger menu and all charging data.

Benefits of modular design

The modular construction means that each charger is built from a certain amount of modules. This solution helps to achieve the optimum performance of charging and provides easy service replacement if a single module fails. The charger bypasses the faulty module and operates at reduced power. Moreover, the charger's controller manages the modules to operate at peak efficiency at all times. Modules can easily be replaced and can even be hot-swapped.

Flexible and user friendly

The large LCD screen constantly displays the charging status. The messages are in clear text, except the coded defaults. The menu also delivers the real time charging process and events. The specific five background colours, that indicate the charging status, are visible from a wide viewing angle.

| COLOUR | FUNCTION |
|---------------------|---|
| Dark blue | Waiting status until battery connected |
| Light blue | Battery on charge |
| Light blue Orange | Alternating, on charge indicating a pump defect, overdischarge, thermal fault or module failure |
| Green | Battery charged |
| Red | Charger faults DF1, DF2, DF3, TH, WRG MOD |
| Green Orange | Alternating, battery charged with pump defect, over-discharge or module failure |

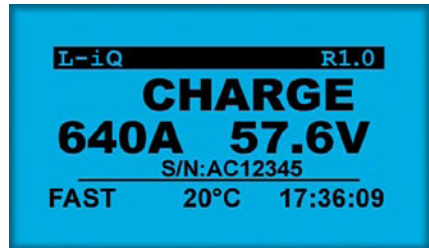
Accurate charging for all applications

LifeSpeed IQ is suitable for all battery technologies with corresponding charging profiles:

- XFC™ for Hawker® XFC range
- Ionic for perfect plus range
- Gel for evolution range
- PzM for Water Less® range
- WL20 for Water Less® 20 use
- Airmix for vented technology like perfect plus, Water Less, with electrolyte circulation
- float charge for AGV application

The charger is equipped with:

- real time clock - can manage the charge at off peak hours. It helps to set equalization charge, once a week or several times a week.
- anti arcing system - enables safe disconnection during the charge
- conditional charge ability - the charger will not start if a defined percentage 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.



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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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