

**CHARGING  
SOLUTION**

# HAWKER® MODULAR CHARGERS

“MODULAR: SETTING  
A NEW STANDARD”



# CHARGING SOLUTION

## MODULAR CHARGERS



### MODULAR: SETTING A NEW STANDARD



24V35A 30/01/14  
Bat +20 °C

LCD SCREEN



105 V  
39 A  
25 °C  
400 Ah

MULTICOLOUR TFT SCREEN

## PEAK PERFORMANCE AND RELIABILITY

The plug and play modules are managed by the charger's algorithm. Modules are automatically switched on and off to achieve optimum charging performance so peak efficiency is maintained at all times. This modular design approach breaks new ground in hardware reliability. Gone are the days when a minor component failure could render the charger inoperable, if a single module should develop a minor fault, the charger bypasses the module and keeps running at reduced power thus not stopping the charging process and impacting on the smooth running of your business.

## REDUCING YOUR ENERGY FOOTPRINT

Hawker® Modular chargers will reduce your battery recharging costs as they consume less electricity and therefore, will also have a positive impact on our environment. The optimized charging factors and high efficiency (ranks up to 94%) makes the range a cost-saving benchmark. A smart and integrated Power Factor Control (only on 1-phase) reduces reactive energy consumption and AC distortion adding another benefit to your mains rating and energy costs.

## OPTIMIZED CHARGING

In addition to the introduction of the new modular range, we have optimized our charging profiles and charging times will be reduced from 1 to 2 hours (depending on battery type). We appreciate that time is one of the biggest cost-driving factors in your business and always keep this in focus. The new range of smart high frequency chargers assures automatic battery identification, increased efficiency and power factor control, reaching the best charging customization along with all the existing high frequency technology benefits.

## FLEXIBLE DESIGN AND SIMPLIFIED SERVICE SOLUTION

The modular charger concept adapts to a wide range of battery capacities and allows you to potentially reduce the number of chargers in your fleet. With less chargers, you will free-up valuable space and provide more charging flexibility for some of your material handling equipment fleet. There is more: the self-diagnostics feature on our modular range will flag up any possible failures and fitting a new module is a simple plug and play operation. Universal - within the range - modules are always available for rapid delivery and replacement.

## KEY FEATURES

### CHARGING

Equalization charge  
Auto-diagnostic  
Conditioning charge  
De-sulphation charge  
Flexible recharge time

### FLEXIBILITY

Multi profile capability  
Multi voltage  
Multi capacity and future-proofing extendable output power  
1 and 3-phase

### COMMUNICATION

USB to download and upload the data

### CONSTRUCTION

Light and modern design  
Free-standing or wall mounting  
Modular concept  
LCD screen with customer programmable menu  
DC cable holder

### GREEN TECHNOLOGY

Reduce carbon footprint with optimized charging factor  
Energy savings: Efficiency up to 94%  
Reduced reactive energy consumption with active PFC (only on 1-phase)  
Consumption below 10W in stand-by  
Complying with latest global standards

## KEY FEATURES

### CHARGING

Equalization charge  
Auto-diagnostic  
Conditioning charge  
De-sulphation charge  
Flexible recharge time  
Arc less disconnect (optional)

Suitable for profiles, Water Less® 20 and Hawker® NexSys®2V

Automatic temperature adjustment to profile with Wi-iQ® Wi-iQ2

### FLEXIBILITY

Multi profile capability, automatic with Wi-iQ® Wi-iQ2  
Multi voltage  
Multi capacity and future-proofing extendable output power  
1 and 3-phase

### COMMUNICATION

Wireless communication between the charger and the battery via the Wi-iQ and Wi-iQ2

USB to download and upload

Ethernet connection with LifeNetwork IQ™ (optional)

### CONSTRUCTION

Light and modern design  
Free-standing or wall mounting  
Modular concept  
4,3" multi colour TFT screen with customer programmable menu  
Background changes colour in line with battery status  
DC cable holder

### GREEN TECHNOLOGY

Reduce carbon footprint with optimized charging factor  
Energy savings: efficiency up to 94%  
Reduced reactive energy consumption with active PFC (only on 1-phase)  
Consumption below 10W in stand-by  
Complying with latest global standards

## Lifetech Modular

### 1 kW Modules

1, 3, 6 bay cabinets  
1 Phase - 200-265V

**Charger range:**  
12V, 24CV, 36/48V from 2kW to 6 kW

**Application:**  
Gel, AGM, standard flooded / Water Less, heavy duty, Air Mix

### 3,5 kW Modules

4 and 6 bay cabinets  
3 Phase - 400V

**Charger range:**  
24/36/48 V from 3,5kW to 21kW  
72/80V from 3,5kW to 21kW

**Application:** Gel, AGM, standard flooded / Water Less, heavy duty, Air Mix

## Life IQ Modular

### 1 kW Modules

3 and 6 bay cabinets  
1 Phase - 200-265V

**Charger range:**  
12V, 24CV, 36/48V from 2kW to 6 kW

**Application:**  
Gel, AGM, standard flooded / Water Less, Water Less 20, heavy duty flooded, Air Mix

### 3,5 kW Modules

4 and 6 bay cabinets  
3 Phase - 400V

**Charger range:**  
24/36/48V from 3,5kW to 21kW  
72/80V from 3,5kW to 21kW

**Application:**  
Gel, AGM, standard flooded / Water Less, Water Less 20, heavy duty flooded, Air Mix



## ACCURATE CHARGING FOR ALL APPLICATIONS

The new Lifetech® Modular and Life iQ™ Modular charger ranges from EnerSys® represent the best-in-class high frequency charging solution for all applications in the field of material handling equipment, automated guided vehicle systems, cleaning machines and industrial electric vehicles.

The new ranges, designed for wall-mount or free standing, boast as exciting new features, automatic identification and switching of output voltage (within the charger's specification), increased efficiency and power factor control and our most compact size to date.

High-frequency technology has already become a standard requirement for battery charging in the Motive Power industry, the new range of Lifetech Modular and Life iQ Modular chargers raise the bar to a new level. The range offers intelligent charging with advanced efficiency and the flexibility to meet the demands of a changing world.

EnerSys, global leader in industrial batteries, has over 25 years' experience in pioneering and promoting High Frequency charging technology. The recent success of LifeSpeed iQ™- 7kW modular charger has led to the research and development of 1kW and 3,5kW modular designs to satisfy the wider material handling equipment market and to comply with worldwide standards.

As a result of this extension, EnerSys is now offering a complete range of premium products from 1kW to 42kW with the best efficiency and performance on the market.

Find out more about our products and services at [www.enersys.com](http://www.enersys.com)

WI-IQ® OPTIONAL



1KW LIFETECH® CHARGER



4 BAY 3-PHASE CHARGER



4 BAY 3-PHASE CHARGER



3 BAY CABINET INTERIOR



3 BAY 1-PHASE CHARGER



4 BAY 3-PHASE CHARGER INTERIOR

## **ABOUT ENERGYSYS®**

EnerSys®, the global leader in stored energy solutions for industrial applications, manufactures and distributes reserve power and motive power batteries, battery chargers, power equipment, battery accessories and outdoor equipment enclosure solutions to customers worldwide.

Motive power batteries and chargers are utilized in electric forklift trucks and other commercial electric powered vehicles.

Reserve power batteries are used in the telecommunication and utility industries, uninterruptible power supplies, and numerous applications requiring stored energy solutions including medical, aerospace and defense systems.

Outdoor equipment enclosure products are utilized in the telecommunication, cable, utility, transportation industries and by government and defense customers.

The company also provides aftermarket and customer support services to its customers from over 100 countries through its sales and manufacturing locations around the world.

**WHEREVER  
YOU DO BUSINESS,  
ENERSYS®  
CAN SUPPORT YOU  
WITH MOTIVE  
POWER ENERGY.**





EnerSys EMEA  
EH Europe GmbH  
Baarerstrasse 18  
6300 Zug  
Switzerland  
Tel: +41 44 215 74 10  
Fax: +41 44 215 74 11  
[www.enersys.com](http://www.enersys.com)

EnerSys Ltd  
Oak Court  
Clifton Business Park  
Wynne Avenue  
Swinton  
Manchester M27 8FF  
Phone: 0161 794 4611  
Fax: 0161 727 3809