

**CHARGING
SOLUTIONS**

**HAWKER®
MODULAR
CHARGERS**

SETTING A NEW
STANDARD



CHARGING SOLUTIONS



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

Our new range of Hawker® Modular chargers comprise individual 1 or 3 phase power modules within space efficient single or multi bay cabinets.

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. No longer does a minor component issue render the charger inoperable. If a single module should develop a minor fault, the charger simply bypasses the module and keeps running at reduced power without interrupting 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 per charge which is good for your business and good for the environment. The optimised charging factors and high efficiency of up to 94% make the range a cost saving benchmark. Smart and integrated Power Factor Control (1-phase) reduces reactive energy consumption and AC distortion adding another benefit to your mains rating and energy costs.



OPTIMIZED CHARGING

We appreciate that time is one of the biggest cost driving factors in your business, so in addition to the new modular range, we have also optimised our charging profiles with a dramatic reduction in charging times of 1 to 2 hours possible, depending on application and battery type. With our unique automatic battery identification algorithms and a variety of programmable user settings, together with our latest charging profiles, this new range of smart high frequency modular chargers will ensure the highest productivity and protection of your battery.



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 your material handling equipment fleet.

The self-diagnostics features on our modular range together with the ability of the LifeIQ™ charger to communicate to the battery via Wi-iQ™ monitor, can also identify any possible issues before they become a major problem.

Fitting a new module is a simple, easy, plug and play operation with no special tools or skill required.

KEY FEATURES	
CHARGING	
Auto start	
Equalization charge	
Auto-diagnostic	
Conditional charge	
Delay charge	
Temperature compensation	
FLEXIBILITY	
Multi profile capability	
Multi voltage	
Multi capacity with extendable output power by adding modules	
1 and 3 Phase, all regions	
COMMUNICATION	
USB data download	
CONSTRUCTION	
Lightweight, modern design	
Free-standing or wall mounting	
Modular concept	
2 line LCD screen with programmable menu	
DC cable holder	
GREEN TECHNOLOGY	
Reduction of carbon footprint with optimised charging factor	
Increased energy savings with efficiency up to 94%	
Standby consumption below 10W	
Compliant with latest global standards, CEC	
OPTIONS <small>*NA on 1kW single bay</small>	
Remote status lights / switch	
Electrovalve auto watering	
Electrolyte air mixing	
Arcless safety plug disconnect	
PLC	
BSi40™ Queuing system interface	

KEY FEATURES	
CHARGING	
Auto start	
Equalization charge	
Auto-diagnostic	
Conditional charge	
Delay charge	
Additional charging profiles	
Active Temperature compensation via battery Wi-iQ	
Low water level safety interrupt via battery Wi-iQ	
FLEXIBILITY	
Multi profile capability Automatic with Wi-iQ	
Multi voltage	
Multi capacity with extendable output power by adding modules	
1 and 3 Phase, all regions	
COMMUNICATION	
USB & Bluetooth data download	
Wireless communication between charger and battery via Wi-iQ	
Network capable	
CONSTRUCTION	
Lightweight, modern design	
Free-standing or wall mounting	
Modular concept	
4.3" multi colour TFT screen with programmable menu	
Display changes colour in line with battery status	
DC cable holder	
GREEN TECHNOLOGY	
Reduction of carbon footprint with optimised charging factor	
Increased energy savings with efficiency up to 94%	
Standby consumption below 10W	
Compliant with latest global standards, CEC	
OPTIONS	
Remote status lights / switch	
Electrovalve auto watering	
Electrolyte air mixing	
Arcless safety plug disconnect	
PLC	
BSi40™ Queuing system interface	
Ethernet - Wired / Wireless	
LifenetworkiQ™ system interface	

Lifetech® Modular	
1 kW Modules	
1, 3 & 6 bay cabinets 1 Phase 85 - 265Vac	
Charger DC Output range: 12V, 24V, 36/48V* - 1 to 6 kW <small>(*multi-voltage)</small>	
Application: Standard & Heavy Duty wet cell Water Less™ Gel, AGM, Air Mix	
3.5 kW Modules	
2, 4 & 6 bay cabinets 3 Phase 360 - 530Vac <small>(Nominal 200vac available)</small>	
Charger DC Output range: 24/36/48V* - 3.5 to 21 kW <small>(*multi-voltage)</small> 72/80V* - 3.5 to 21 kW <small>(*multi-voltage)</small>	
Application: Standard & Heavy Duty wet cell Water Less™ Gel, AGM, Air Mix	

Life iQ® Modular	
1 kW Modules	
3 & 6 bay cabinets 1 Phase 85 - 265Vac	
Charger DC Output range: 12V, 24V, 36/48V* - 1 to 6 kW <small>(*multi-voltage)</small>	
Application: Standard & Heavy Duty wet cell Water Less™, Gel, AGM, Air Mix Opportunity	
3.5 kW Modules	
2, 4 & 6 bay cabinets 3 Phase 360 - 530Vac <small>(nominal 200Vac available)</small>	
Charger DC Output range: 24/36/48V* - 3.5 to 21 kW <small>(*multi-voltage)</small> 72/80V* - 3.5 to 21 kW <small>(*multi-voltage)</small>	
Application: Standard & Heavy Duty wet cell Water Less™, Gel, AGM, Air Mix Opportunity	



Wi-iQ™ OPTIONAL

ACCURATE CHARGING FOR ALL APPLICATIONS

The new Lifetech® and LifeiQ™ Modular charger range 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 range, designed for wall-mount or free standing, include exciting new features such as **automatic capacity identification**, **automatic switching of output voltage** (within specification), **increased efficiency** and power factor control which is all **combined in our most compact size to date**.

High-frequency technology has already become a standard requirement for battery charging in the motive power industry and our new range of Lifetech and LifeiQ Modular chargers raise the bar to a new level. **Highly intelligent charging with advanced efficiency and simple flexibility 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 and smart charge profile technology. The recent success of the LifeSpeediQ™ 7kW modular charger has led to the research and development of these 1kW and 3.5kW modular designs to satisfy the wider material handling equipment market and compliance to the latest global standards.

As a result, EnerSys is now offering a complete range of premium charger 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



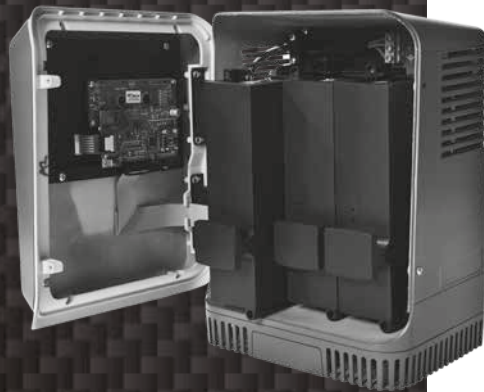
1-PHASE Lifetech™ CHARGER



3-PHASE Lifetech™ CHARGER



1-PHASE LifeiQ™ CHARGER



1-PHASE 3 BAY CABINET INTERIOR



3-PHASE LifeiQ™ CHARGER



3-PHASE 4 BAY CABINET INTERIOR

ABOUT ENERSYS®


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 utilised 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 defence systems.

Outdoor equipment enclosure products are utilised in the telecommunication, cable, utility, transportation industries and by government and defence 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.**



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