

EnForcer®

CHARGERS THAT MAKE A DIFFERENCE

*A line of advanced technology chargers
from the world leader in motive power*



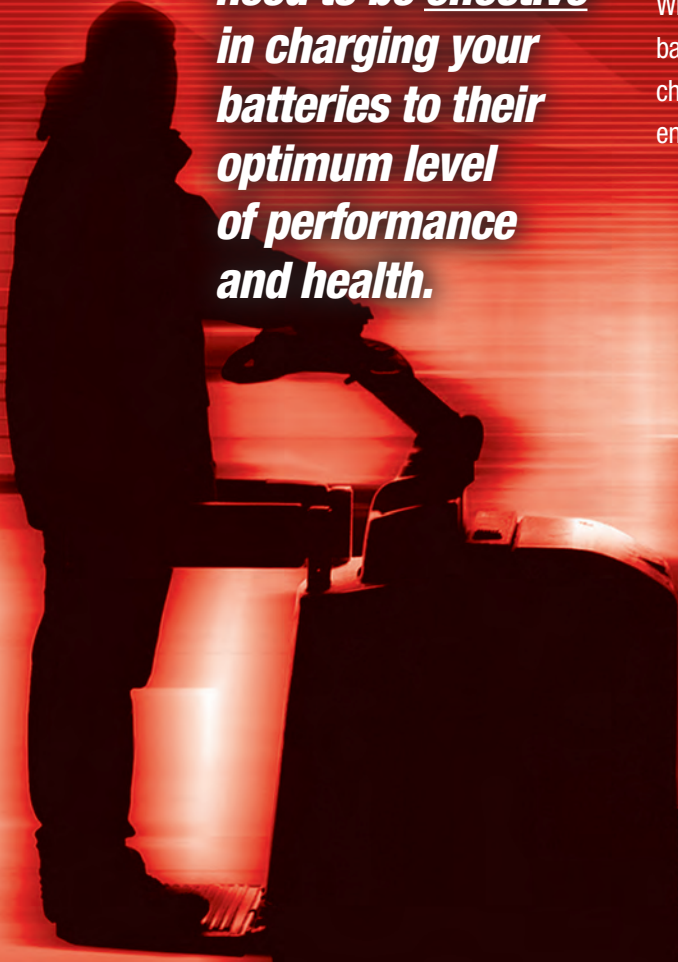
**With the exclusive
IONIC Charge Profile –**

*Using diagnostic intelligence to maximize
battery power and life, while reducing
maintenance and energy costs*

EnerSys®
Power/Full Solution

EnForcer

EnForcer[®]
CHARGERS THAT MAKE A DIFFERENCE



Chargers need to be more than just efficient, they need to be effective in charging your batteries to their optimum level of performance and health.

No two warehousing operations are exactly the same. So EnerSys[®] offers a broad range of products, services and programs to optimize your motive power program. This includes everything from batteries and chargers to change-out equipment and sophisticated monitoring and reporting technologies.

Whatever power management strategy is best for your operation – from multiple batteries per forklift to zero battery changes – EnForcer[®] HF (High Frequency) chargers can play a critical role. A full family of flex-use EnForcer HF chargers enables your program to be customized for your operational needs. Benefits include:

Effectiveness - Exclusive IONIC profile ensures maximum battery performance and life

Simplicity - Automatic operation – just plug in the battery

Versatility - Tubular or flatplate, flooded or VRLA, hot or cold environments, there is an EnForcer HF charger for every application

Efficiency - 95% power factor and 93% efficiency reduces costs

Productivity - Increased uptime; reduced maintenance



High Efficiency, High Power Factor

High efficiency and a high power factor combine to make this an excellent charger for many operations. In addition to reducing energy consumption for charging, the EnForcer® HF Logiq charger helps extend battery life for further savings.

Advantages of EnForcer® HF Logiq Chargers

- Reduces utility costs
- Ionic profile constantly diagnoses the battery's condition and adjusts the charging curve for optimum charge
- Ionic profile's diagnostic intelligence continually evaluates the battery's condition throughout the charge. Providing optimum charge reduces heat and overcharge. This maximizes battery life.
- Small, compact wall mount design or stand options
- Optional remote control and mounting stand options for added convenience

Programmable Options

- Charge Profiles – Ionic (Flooded), Cold Store or VRLA Battery
- Equalize – automatic or manual
- Cable Lengths – Standard 8', 15', 20' and 25'



Higher Efficiency, Lower Costs

EnForcer® HF chargers deliver the high power factor and high efficiency that reduces utility demand charges and AC power consumption, resulting in lower utility bills. And they help lengthen battery life ... another big money saver.

Opportunity Charge Ready

EnForcer HF chargers are always ready for opportunity charging, which reduces and sometimes eliminates the need to change batteries during a shift or workday.

Advantages of EnForcer® HF Chargers

- Reduces utility costs
- Ionic profile constantly diagnoses the battery's condition and adjusts the charging curve for optimum charge
- Ionic profile's diagnostic intelligence continually evaluates the battery's condition throughout the charge. Providing optimum charge reduces heat and overcharge. This maximizes battery life.
- Data recording and access capabilities – 20-cycle charge memory
- Optional remote control for added convenience

Programmable Options

- Charge Profiles – Ionic (Flooded) and Cold Store or Opportunity and Standard IEI
- Auto Equalize – 3 or 7 hours
- Delayed Start – 0, 1, 4 or 8 hour increments
- Cool Down Time – 0, 1, 2, 4, 6 or 8 hour increments
- Cable Lengths – Standard 8', 15', 22' and 29'





Four Times the Charging Capability

EnForcer® HF Multi chargers deliver a new standard in efficiency. Four ports enables up to four batteries to be charged at the same time. Plus you get all the other benefits of EnForcer HF technology.

Opportunity Charge Ready

EnForcer HF chargers are always ready for opportunity charging, which reduces and sometimes eliminates the need to change batteries during a shift or workday.

Advantages of EnForcer® HF Multi Chargers

- Ionic profile constantly diagnoses the battery's condition and adjusts the charging curve for optimum charge
- Ionic profile's diagnostic intelligence continually evaluates the battery's condition throughout the charge. Providing optimum charge reduces heat and overcharge. This maximizes battery life.
- Data recording and access capabilities – 20-cycle charge memory
- Optional remote control for added convenience
- Saves valuable space – up to 4 chargers in one cabinet

Programmable Options

- Charge Profiles – Ionic (Flooded) and Cold Store or Opportunity and Standard IEI
- Auto Equalize – 3 or 7 hours
- Delayed Start – 0, 1, 4 or 8 hour increments
- Cool Down Time – 0, 1, 2, 4, 6 or 8 hour increments
- Cable Lengths – Standard 8', 15', 22' and 29'



Greater Efficiency

EnForcer® HF IQ chargers deliver high efficiency to save power and money. The battery charger has a higher efficiency rating compared to many conventional chargers, which achieve only between 60-80% efficiencies.

Multi-Volt/Multi-Amp Charger

The EnForcer HF IQ charger is versatile because one charger can automatically charge batteries of various voltages and capacities.

Opportunity Charge Ready

EnForcer HF IQ chargers are always ready for opportunity charging, which reduces and sometimes eliminates the need to change batteries during a shift or workday.

Advantages of EnForcer® HF IQ Chargers

- Wi-iQ™ device enables communication between the charger and the battery for the most effective charge regardless of battery voltage and capacities.
- Reduces utility costs
- Ionic profile's diagnostic intelligence continually evaluates the battery's condition throughout the charge. Providing the optimum charge reduces heat and overcharge. This maximizes battery life.
- Data recording and access capabilities – 200-cycle charge memory
- Selectable Opportunity Charge, Flooded Battery, VRLA Battery and Cold Storage modes
- Optional remote control and mounting stand options for added convenience
- Wall mount or cabinet design available

Programmable Options

- Charge Profiles – Ionic (Flooded), Cold Store, VRLA Battery or Opportunity
- Equalize – automatic or manual
- Delayed Start – 0-23 hours
- Cool Down Time – user programmable



Every type of operation benefits from EnForcer® HF charger technology. Let the motive power experts at EnerSys® show you how.



Single Battery Operation™ (SBO) – Reliability isn't a luxury, it's a necessity. Smart managers that run just a single shift take advantage of the low total cost of ownership and reliable charging that only EnForcer® chargers provide. THE best solution for operations looking for dependability.



Zero Battery Change™ (ZBC) – Stop changing batteries. Start saving money. Consider increasing productivity and improving safety by using EnForcer chargers to recharge batteries during breaks and shift changes. Trucks become 100% productive.



Smart Battery Change™ (SBC) – Change is good when the change is Smart. Save money and get more done when you include EnForcer chargers in a Smart Battery Change system. You will be amazed how you can reduce your battery fleet AND increase productivity.

The IONIC Charge Profile

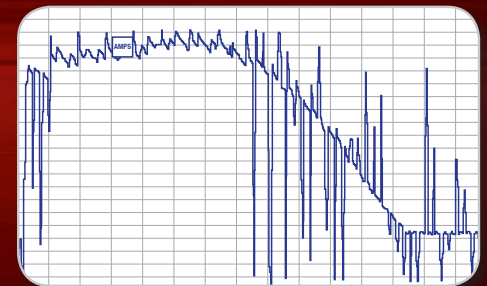
AVAILABLE ONLY WITH ENFORCER® HF CHARGERS

The most efficient charger is the one that is never turned on. Therefore, proper management means choosing a charging strategy that does more than increase energy efficiency. A charger's EFFECTIVENESS is measured by the resulting performance of the battery it charged.

All HF chargers employ High Frequency (HF) charging technology to optimize charging efficiency and switching speed. Only EnerSys® offers the IONIC charge profile. EnForcer HF chargers utilize the exclusive IONIC charge profile, continually diagnosing battery condition throughout the charging process for the most effective and efficient charge possible.

Ultimately, the exclusive IONIC profile makes it possible to bring a battery's specific gravity back to "nameplate" – that is, to virtually the same rating the battery had when new.

Additionally, the temperature rise during the charge process is kept to a minimum, extending the battery's life. This is in sharp contrast to other, less effective HF charging profiles that do not restore the battery to its greatest potential.



THE EXCLUSIVE IONIC CHARGE PROFILE

The combination of the IONIC profile with energy efficient HF charging technology can result in:

Reduced number of charge times – greater uptime means fewer batteries needed

Reduced heat generation – less battery stress during charging extends battery life

Higher charger accuracy – regardless of age, state of discharge or battery condition

Less battery maintenance – reduced temperatures equals less need for watering

Lower charging costs – reduced electric bills and battery handling costs

Lower total cost of ownership – the result of reduced inventory and maintenance as well as energy savings

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To find out more about how we're making battery recycling easier for everyone, call 1-800-EnerSys (1-800-363-7797) or email us at recycling@enersys.com.

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