

# NEWS

Further Information:  
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## ***Applied Energy Solutions High Frequency Battery Charger offers energy cost savings, less emissions, more power capacity***

**CALEDONIA, NY (October 17, 2008)** – Applied Energy Solutions ([www.appliedenergysol.com](http://www.appliedenergysol.com)) has developed its first true “green” energy battery charger for the motive power industry.

The Maverick™ is a high efficiency charger that minimizes the amount of power drawn, giving users of electric utility vehicles real cost savings, reduced CO2 emissions and additional power capacity. It is available in conventional, opportunity, and rapid charge start rates.

“The launch of the Maverick™ High Frequency charger represents an essential element of all battery powered electric vehicles and large fork lift fleet applications and can mean significant energy cost savings to the user in their daily charging requirements,” said Vern Fleming, President, Applied Energy Solutions.

“The Maverick™ High Frequency-Insulated Gate Bipolar Transistor (HF-IGBT) Charger returns more energy at a lower cost than conventional chargers,” Fleming said. “It has a full load power factor of .95 and is the most efficient charger available, resulting in the lowest operating cost.”

The Maverick’s TCC 2.0 controller allows for lower battery recharge temperature due to a very low ripple current. In addition, the IGBT switching efficiencies at medium and high power are higher and the drive circuitry is simpler. This means that the Maverick™ can be used at higher frequencies without the audio noise found in conventional chargers.

“It has been documented that with the Maverick™ High Frequency charger, most distribution centers can save \$100-\$200 per year per battery in energy costs,” Fleming said.

Additional significant energy savings can be realized by utilizing the unit’s programmable controls that enable users to stagger the charger start time outside high cost peak demand periods.

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(Maverick™ release, continued)

Additional features include:

- Delayed start from 15 minutes to 4 hours in 15 minute intervals
- Equalize can be done manually, automatically with day/time setting, or every 5 cycles
- Auto refresh charge every 24 hours
- Programmable charge termination when battery voltage reaches gassing
- Remote Control Interface
- Auto start with five second delay
- Auto shutdown when 80% or final charge exceeds time limit, for excessive voltage or charge current irregularities, and when the maximum battery temperature is exceeded
- Digital readout displays and LED charge status indicators

“These features combined with a comprehensive warranty make the Maverick™ line of high frequency chargers the absolute best value in the market,” Fleming said.

For more information on the Maverick™ and the complete line of AES battery chargers, call 1.800.836.2132 or visit [www.appliedenergysol.com](http://www.appliedenergysol.com).

-30-