THE FUTURE FOR TOTAL ELECTRIC VEHICLES . . .

NICKEL-IRON POWER
NOW! There is a reliable, Nickel-Iron battery that weighs less and stores more energy than a conventional lead-acid battery.

Long-life, deep-cycle Nickel-Iron technology can extend the range of any electric vehicle!
A technology that will power both present and future total electric vehicles is being brought to production by Eagle-Picher. Design innovation has substantially improved the performance of the historically rugged and reliable electrochemical couple. Now, there is a Nickel-Iron battery with greater specific energy and power.

Designated the NIF-200-5 module, it is the most recent addition to the family of Nickel-Iron batteries developed by Eagle-Picher. This configuration is compatible with BCI Group GC-2 applications.

It weighs up to 20% less, stores up to 50% more energy and can last up to four times longer than conventional lead-acid batteries. And it has a deeper cycle capability to assure problem-free operation in the field.

Routine water addition has been made simple with an especially designed, single-point, watering system. It makes routine battery maintenance fast and error-free.

The Nickel-Iron battery can be charged with your current lead-acid battery charger with only minor modifications. Or you may be interested in the quick charging capabilities available with a new charger manufactured especially for Nickel-Iron batteries.

If your present electric vehicles spend too much time plugged into electrical outlets, run out of energy before the work shift ends, or require battery replacements too often... consider the future, today.

Give us a phone call. We will be glad to discuss the benefits of an Eagle-Picher Nickel-Iron battery made to meet your specific application.

Your call will be answered by a technical engineer, not a salesman. Together, we can determine how this innovative power plant might serve you.

Phone 417-623-8000 or 417-623-8333
Nickel-Iron...a vehicle battery that meets all major demands...High Energy, High Power, Deep Cycles and Long, LONG Life

Developed by Eagle-Picher, the company that's at home in the future and founder of many advancements for electric vehicles.

- Designed and built batteries for the Lunar Rover.
- Designed and built the batteries for Skylab and many deep space probes for NASA.
- Designed and built batteries for electric vehicles that captured 21 land speed records.
- Designed and built batteries for the electric vehicle that held the land distance record for six years.
- Designed and built batteries for speed boats that have held many speed and distance records.

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TECHNICAL DATA SHEET

Battery No. NIF-200-5
Nickel-Iron Module

Electrochemistry:
- Nickel/KOH/Iron

Physical Data:
- Length .................................. 10.3 max. in.
- Width .................................. 7.1 max. in.
- Height .................................. 9.8 max. in.
- Volume .................................. 660 in³
- Weight ..................................
  - Dry .................................. 42 lbs.
  - Activated ............................. 54 lbs.

Outline Configuration

Electrical Information

Nominal Discharge Voltage (C/2): ...... 6.0 Volts
Voltage Limits:
- End of Discharge (C/3) .............. 5.0 Volts
- End of Discharge (C/2) .............. 4.5 Volts
- End of Charge (C/5) ................ 8.6 Volts
- End of Charge (C/10) ............... 8.3 Volts
Open Circuit Voltage:
- 0% S.O.C. (1 Hr. after discharge) .... 6.1 Volts
- 100% S.O.C. (1 Hr. after charge) .... 7.2 Volts
Discharge Capacity:
- C/2 .................................. 199 Ah to 4.5 Volts
- C/3 .................................. 204 Ah to 5.0 Volts
Percentage Overcharge Recommended:
- 35-40%

Thermal Characteristics:
- Operating temperature ...... 0-60°C
- Temperature compensated charge voltage required (8.3 V at 25°C nominal)

Unique Operating Characteristic:
- Hardware has been designed for single point watering and gas management
- Chargers have been developed for 24V, 36V and 48V battery configurations

Case Material:
- Polypropylene plastic, heat sealed cover to case

Discharge Curves - Volts vs. State of Charge

Recommended Charge Profile (from 0% S.O.C. @ 25°C)

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