

## VRLA Battery Maintenance



### Battery reliability starts with EnerSys®

As studies indicate, lack of maintenance is the major cause of premature battery failure. While valve regulated lead acid (VRLA) batteries require substantially less attention than traditional “wet” cell batteries, they do require maintenance. Our SystemSafe<sup>SM</sup> VRLA Battery Maintenance services will help ensure that your back-up batteries will deliver maximum power when you need it most.

### Planned maintenance programs that work for you

Designed to meet a range of telecommunications, UPS, and switchgear applications, our SystemSafe VRLA Battery Maintenance programs feature Internal Resistance Testing, which can be tailored to meet individual site or customer requirements.

EnerSys® performs all maintenance procedures recommended per IEEE Standard 1188, including all voltage, resistance, current and temperature measurements, a complete visual inspection, non-destructive impedance or resistance testing and a professional report summarizing the results.

EnerSys will also work with you on any recommended course of action that may be necessary to ensure proper operation of your investment.



### SystemSafe<sup>SM</sup> VRLA Battery Maintenance

EnerSys offers two basic levels of planned maintenance services, both of which can be customized to meet your specific needs:

- **Basic Care**

EnerSys performs all quarterly and annual maintenance as required by IEEE Standard 1188. All monthly measurements and inspections are the customer's responsibility.

- **Maximum Care**

EnerSys handles the total maintenance package, performing all monthly, quarterly, and annual maintenance procedures following IEEE Standard 1188.

## The EnerSys® Difference

In addition to a complete VRLA maintenance program per IEEE standards, EnerSys® SystemSafe™ VRLA Battery Maintenance services also feature:

- 90-day warranty on all parts and labor
- 7-day, 24-hour response coverage
- Toll-free 800 number for emergency service response

**Contact your local EnerSys® Service Center for more information on SystemSafe™ VRLA Battery Maintenance.**



At EnerSys, we've developed the industry's most comprehensive lead-acid battery recycling program.

Federal and state regulations require that lead-acid batteries be recycled. Our battery recycling program ensures that you are in full compliance with all EPA, DOT, and/or federal and state regulations. Our program is flexible enough to meet all of your logistical needs. For instance, we can pick up your spent lead-acid batteries, or you can deliver them to the nearest service center yourself. It's your choice. The EnerSys nationwide service organization can arrange pickup, transportation to, and recycling at any one of our company affiliated smelters. Call 1-800-972-7372 for more information.

**24 Hour Service or Repair, call:  
1-800-423-9602 (U.S.)**



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## SystemSafe™ VRLA Battery Maintenance Program

Program Features	Monthly	Quarterly	Annual
Measure and record overall float voltage measured at the battery terminals	✓	✓	✓
Measure and record charge output current and voltage	✓	✓	✓
Measure and record ambient temperature of battery room or cabinet	✓	✓	✓
Check condition of ventilation and monitoring equipment	✓	✓	✓
Visual inspection of cell/unit integrity for evidence of corrosion at terminals, connections, racks, or cabinets and area around battery for accessibility	✓	✓	✓
Check for excessive jar/cover distortion	✓	✓	✓
Measure and record DC float current (per string) using equipment that is accurate to less than 1 A current	✓	✓	✓
Measure and record cell/unit internal ohmic values		✓	✓
Measure and record temperature of the negative terminal of each cell/unit of battery		✓	✓
Measure and record voltage of each cell/unit		✓	✓
Measure and record cell to cell and terminal connection detail resistance of entire battery			✓
Measure and record AC ripple current and/or voltage imposed on the battery			✓

### Special Inspect same as yearly

If battery has experienced an abnormal condition such as a severe discharge, overcharge, or extreme high ambient temperature, an inspection should be made to assure that the battery has not been damaged.