

VRLA Battery Maintenance : Valve Regulated Lead Acid (VRLA) batteries have been misleadingly referred to as “maintenance-free” or “trouble-free.” At ONEAC, we know there is no such thing as a “maintenance-free” battery. Although VRLA batteries require much less maintenance than the typical “wet” cell battery, in the end, all batteries require some maintenance.

Getting all your battery has to offer

Studies have shown that the major cause of premature battery failure is due to lack of maintenance, which is one reason why the Valve Regulated, Lead Acid (VRLA) battery was designed. But along with this new technology, misleading terms like “maintenance-free” and “trouble-free” have come into existence.

At ONEAC, we know there is no such thing as a totally “maintenance-free” battery. We do recognize that sealed batteries require much less maintenance than the typical “wet” cell battery, but in the end, all batteries require some maintenance. As a result, we have developed the following VRLA Battery Maintenance Program with Internal Resistance Testing, which can be tailored to meet individual site or customer requirements.

Planned maintenance agreements to suit your needs

ONEAC performs all maintenance procedures recommended per IEEE 1188. This includes all voltage, resistance, current and temperature measurements, a complete visual inspection, and a professional report summarizing the results. This includes non-destructive impedance or resistance testing. ONEAC will also work with you on any recommended course of action that may be necessary to insure proper operation of your investment.

ONEAC's BatteryCare™ Plans

ONEAC can perform a complete BatteryCare Plans that follows IEEE standard 1188 recommendations, or customize the program to meet your needs. ONEAC offers two plans of battery care:

- **BatteryCare Basic:** ONEAC will perform all annual maintenance as required by IEEE standard 1188. All monthly and semi-annual measurements and inspections are the customer's responsibility.
- **BatteryCare PLUS:** ONEAC will handle the total maintenance package, performing all monthly, semi-annual, and annual maintenance procedures following IEEE standard 1188.



- **Two service levels :** Annual or Total Maintenance
- **Maintenance programs can be customized:** to suit your needs.
- **ONEAC battery maintenance plans follow IEEE standard 1188 recommendations**
- **Battery recycling program:** ensures you're in full compliance with EPA/DOT and /or state and federal regulations.
- **ISO 9001:** offering reliable quality service throughout the United States.

VRLA Battery Maintenance: Features and Specifications

Program Features	Monthly	Semi-Annual	Annual
Measure and record battery voltage	•	•	•
Measure and record charger output current and voltage	•	•	•
Measure and record ambient temperature within room or cabinet	•	•	•
Inspect battery, rack integrity, and battery area and clean as necessary	•	•	•
Inspect cells/units for cracks, leakage, and jar/cover distortion, corrosion	•	•	•
Inspect for evidence of corrosion at the terminal, connections, rack or cabinet	•	•	•
Measure and record the voltage of each cell/unit		•	•
Measure and record the total voltage of the system		•	•
Measure and record the internal resistance of each cell/unit		•	•
Measure and record the negative post temperature of each cell/unit		•	•
Measure and record the connection resistance of each cell/unit		•	•
For applications with a discharge rate of 1 hour or less, measure and record a sample of connection resistances (minimum of 10% or 6 connections)		•	•
Measure and record 100% of connection resistances			•
Measure and record torque values of each connection			•
Record date of cleaning and inspection	•	•	•
Provide inspection report	•	•	•

The ONEAC difference

ONEAC's BatteryCare Plans can be designed to fit any need – telecommunications, UPS, Utilities, Switchgear, etc. And our planned maintenance inspections can supplement capacity testing to assure that your system delivers maximum power when you need it.

ONEAC service and system support goes beyond offering a complete VRLA Maintenance program as recommended per IEEE standards. ONEAC also offers the following services as part of our every day customer support:

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

Total solution provider for service & system support

Contact ONEAC for detailed information on our complete Turnkey UPS or DC power installation and BatteryCare Plans.

ONEAC, in cooperation with its vendor partnerships, has the industry's most comprehensive lead-acid battery recycling program. Federal and state regulations require 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 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. ONEAC's nationwide service organization can arrange pickup, transportation, and recycling at any one of our affiliated smelters.



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