



## **Battery Specifications for UPS Applications**

These batteries are intended for use with Battery Back Up Systems used in Traffic Control Signal Systems  
08/07/2013

### **1. Mechanical**

- a) Shall have reinforced container walls to reduce bulging.
- b) Shall have high impact strength case.
- c) Shall have top mounted threaded insert or stud terminals for connections.
- d) Shall be a maximum 13" long, 7" wide, 9 1/2" high including terminals.
- e) Shall have carrying handles.
- f) Shall pressurize to 1.5 PSI before venting.
- g) Shall be a maintenance free design that never requires water.

### **2. Electrical Characteristics**

- a) Shall be rated 12 Volts.
- b) Shall be a Valve Regulated Lead Acid Absorbed Glass Mat battery.
- c) Shall have a minimum 100 Ah (Ampere Hour) capacity with discharge Amps to 1.75VPC @ 77°F (24°C)
- d) Shall have immobilized Electrolyte and shall be Non-Spillable.
- e) Shall have Ultra premium Absorbed Glass Matt (AGM) Micro-porous Glass Separators to retain Electrolyte.
- f) Shall be capable of a discharge rate of 411.8 Amps per cell for 1 minute without reducing the performance of the battery.
- g) Shall have a low self discharge rate approximately 1 % per month.
- h) Shall operate over temperatures ranging from (-30F to +140F).
- i) Shall be classified as "Non-Spillable Battery" for Transport.

### **3. Certifications and Listings**

- a) Must be U.L. Recognized.
- b) Must meet ISO9001 certification.
- c) Shall have a capacity that meets or exceeds IEEE-485 Recommended Practice for Sizing Lead-Acid Batteries for Stationary Applications.

### **4. Warranty**

- a) Must have two year full replacement warranty.