



Equipment Specification  
Document No.: 4350.188  
Item No.: 82612  
Originating Department: Distribution Engineering



## 48 Volt Battery Set (12 V per Battery)

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### 1. Introduction

This is a general specification that covers the minimum requirements for a 48 volts battery set (12V per battery) for line recloser to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement regarding on site specific conditions, quantity, and other requirements. This document includes the general electrical and mechanical characteristics of the material.

### 2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. The material will be received at the LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

### 3. Quantity/Literature

Descriptive and technical literature shall be supplied if requested by LUMA. This literature may include, but is not limited to details of material, drawings, and instructions for use and installation. For products described in this specification as requiring qualification, awards will be made only for such products that, prior to the time for opening of bids, had been tested and/or approved by LUMA. Evidence of LUMA Energy's approval of the equipment or material shall be supplied by vendor if requested by LUMA Energy.

### 4. Markings

- 4.1. Containers shall be marked outside with LUMA purchase order number and item number.
- 4.2. Labels and tags shall be waterproof.

### 5. Equal or Approved Equal to

ABB, model 2RGA014834P0001A.

### 6. Packaging

All material and equipment shall be packaged and marked in such a way as to facilitate handling and protection from damage, and that it can be readily identifiable at the receiving warehouse.

### 7. Number Per Package (Logistics)

Four (4) batteries per set or as requested by LUMA.



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### 8. Acceptance Criteria

- 8.1. Test required: certified by external laboratories.
- 8.2. Shall comply with the latest applicable codes, standards, and other regulations.

### 9. Description

- 9.1. Battery voltage must be 12 VDC
- 9.2. Batteries are to be installed in sets of four batteries to provide a 48 VDC source.
- 9.3. Minimum capacity per battery: 12 Ah
- 9.4. Battery cell chemistry: Absorbent Glass Mat.
- 9.5. Approximate weight shall be 8.1 lbs. (3.68 kg).
- 9.6. Approximate dimensions: 5.95 x 3.86 x 3.94 inches (15.1 x 9.8 x 10.01 cm). See Figure 1 for detailed dimensions.

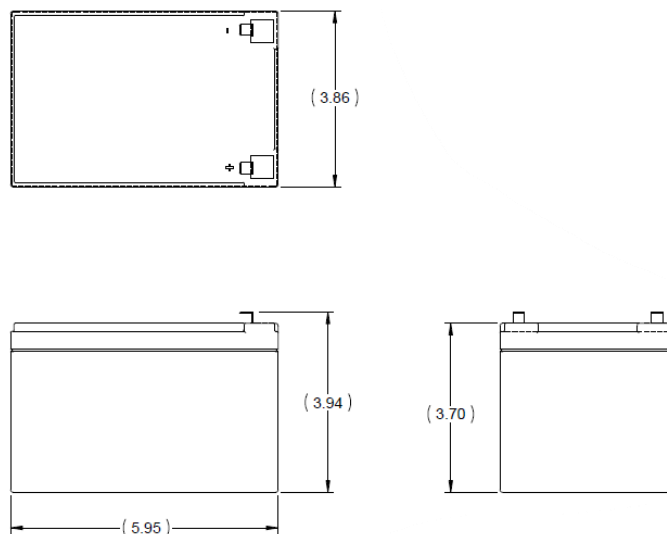


Figure 1: Dimensions (dimensions in inches)



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- 9.7. Battery terminals must be Type F2 Faston, quick disconnect tabs.
- 9.8. Must be designed to operate in an ambient temperature range of 0°C to +50°C (32°F to 122°F)

### 10. Inspection

The acceptance of any material or equipment shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it would not prevent subsequent rejection if such materials were found later to be defective.

— End of Specification —

### Document History

<b>Version</b>	1	
<b>Date</b>	01/31/2022	
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