

## TEC Battery Cabinet

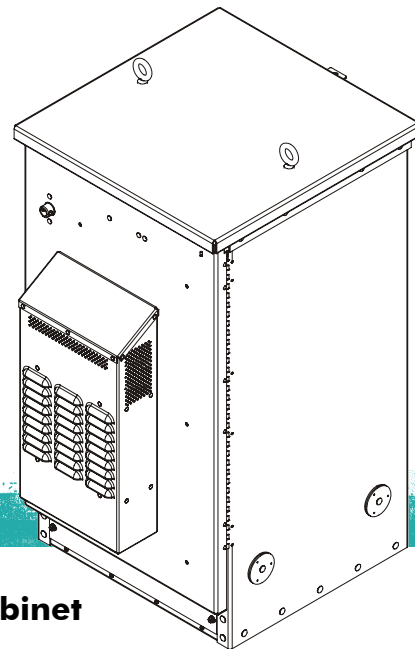


The thermoelectric cooler (TEC) battery cabinet is intended for use in an outdoor plant environment to provide three shelves of battery backup at wireless cell sites. This cabinet will provide -48 VDC backup power to the system in the event of an AC utility power failure. The cabinet includes a thermoelectric cooler to maintain internal cabinet temperatures near 25°C.

### Cabinet Design

The TEC battery cabinet enclosures optimize heat transfer, environmental protection, and ease of installation and maintenance. Each cabinet is assembled, completely wired, and system tested at the factory to provide the highest standards of quality and quick trouble free installation.

The cabinet is manufactured with all corrosion resistant materials. One-eighth inch thick aluminum is used for the cabinet body and the majority of the cabinet components. Aluminum was selected because of its strength, durability, fire resistance, corrosion resistance, and heat transfer characteristics, which are essential for outdoor applications. A polyester powder paint finish is electrostatically applied to all cabinet surfaces to produce an extremely durable, high-quality finish and attractive appearance.



**TEC Battery Cabinet**

## Features

The TEC battery cabinet design meets all functional and performance requirements of Telcordia GR-487-CORE and includes several attractive features:

- Heavy-Duty Aluminum Construction
  - Provides corrosion, weather, fire, and vandal resistance protection.
  - Provides for adequate hydrogen ventilation.
- Thermoelectric Cooler Heat Management System
  - Maintains battery temperatures near 25°F.
  - Automatically shuts down when voltage is below  $-50.2$ , reconnects at  $-51.4$  VDC.
  - Significantly improves battery life performance.
  - Reliable, low maintenance, safe solution.
  - Thermoelectric cooler is thermostatically controlled.
  - TEC can also act as a heater on low ambient conditions.
  - Environmental friendly cooling (no refrigerant).
- Solar Shield Utilized to Minimize Heat Loads Into the Cabinet.
- Factory Assembled and Tested
- Designed for EnerSys SBS C11 Batteries.

## Construction and Finish

The TEC Battery Cabinet features include:

- Electrostatically applied, durable baked on polyester powder paint in gray color.
- High-gloss smooth finish that is easy to clean and minimizes accumulation of soot
- Aesthetically pleasing to enhance public acceptance.
- Security:
  - All door latches can be secured using a padlock
  - A special hex key is required to open all doors
  - The solar shield can be secured using a padlock
  - Optional alarm intrusion

## Cabinet Dimensions and Weight

Overall dimensions and weight of the TEC Battery Cabinet are in Figure 1.

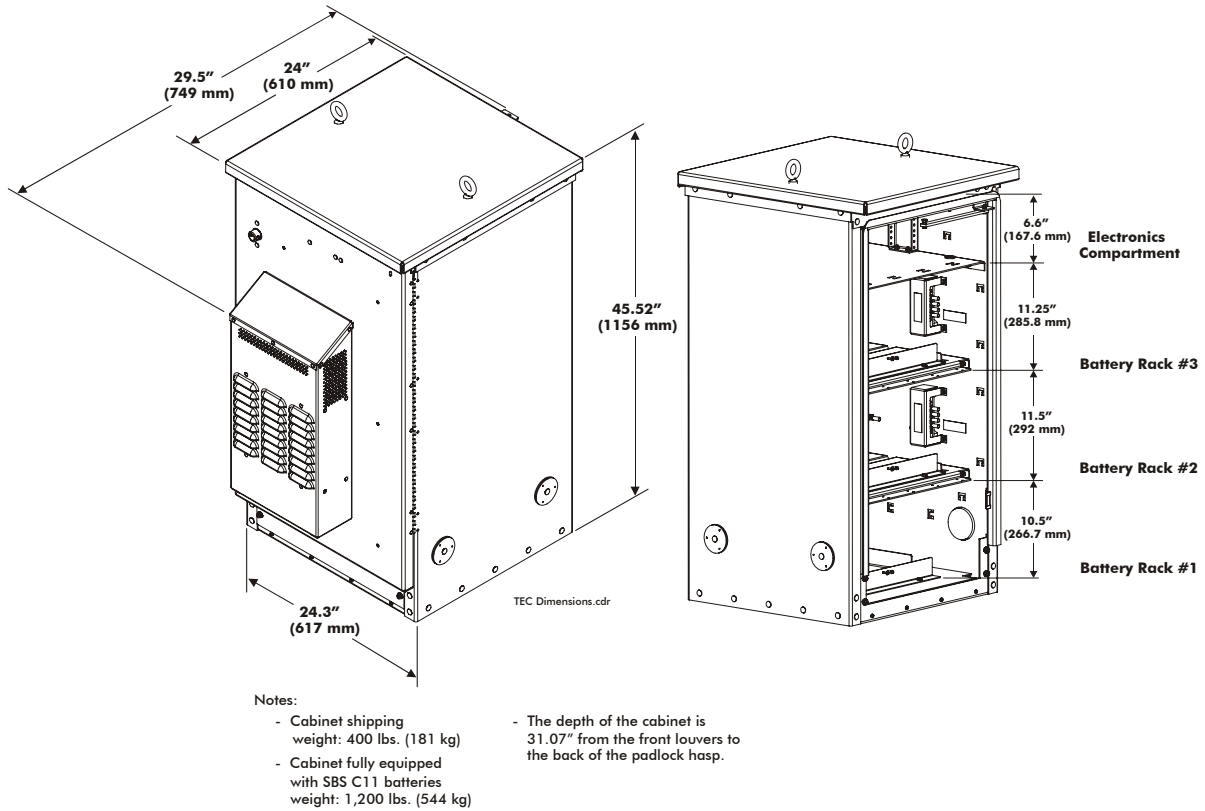


Figure 1. TEC Battery Cabinet Dimensions

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