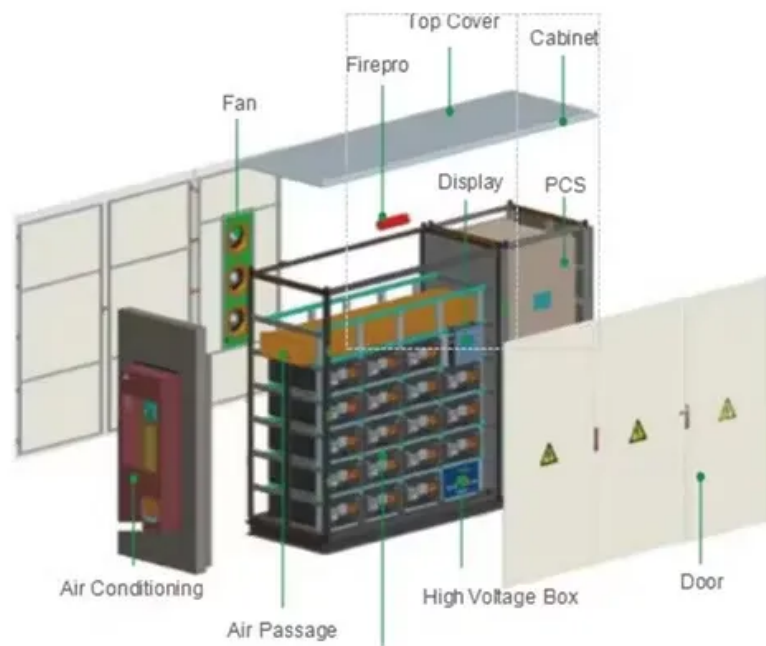


## Kongres Container

# Communication base station battery lightning protection level requirements standard



## Overview

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Recommendation ITU-T K.112 provides a set of practical procedures related to the lightning protection, earthing and bonding of radio base stations (RBSs). Does a lightning arrester protect a telecommunication station?

Lightning protection (strikes with indirect effects) for telecommunication stations by lightning arresters, is applicable for all electrical networks. It is also compulsory to provide protection against lightning strikes with direct effects by placing a lightning arrester (near the top of the).

Are lightning protection systems required by building codes?

Lightning protection systems for structures are typically not a requirement of national building codes, although the Standards may be adopted by the authority having jurisdiction for general construction or specific occupancies.

How many connections should a ground bar have to a lightning protection system?

A ground bar designed for interconnection of building grounded systems shall have one connection to the lightning protection system. A continuous metal water pipe system designed for interconnection of building grounded systems shall have one connection to the lightning protection system.

How should a lightning protection system be maintained?

An inspection and maintenance procedure is recommended, and may be conducted by the system installer, an authority. Keeping the lightning protection system up to date with current standards ensures the greatest level of safety. When a lightning protection system is upgraded, as-built drawings should be revised to document modifications.

How far should a lightning protection system be from a building?

For convenience, consider bonding all grounded metal bodies within 7 feet (2 m) of the lightning protection system to stop side flash through air, and those

within 3.5 feet (1 m) to stop side flash through building materials.

How should a lightning protection System (RBS) be formed?

The earthing network of an RBS should be formed by a ring loop surrounding the tower, equipment room and fence, at a minimum. The mean radius  $r_e$  of this ring loop should be not less than  $l_1$ , as indicated in Figure 1 and this value depends on the lightning protection system (LPS) class and on the soil resistivity.

## Communication base station battery lightning protection level requ

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