# How much is the lightning protection of the communication base station inverter

Can radio communication sites be protected from lightning?
The protection from lightning of radio communication sites can be achievedand protection from even direct lightning strikes is possible. The author is familiar with many examples where direct strikes have occurred and full protection has been achieved. The mechanism of a lightning strike must first be fully understood.

Why are radio communications stations prone to lightning strikes?
It is not difficult to understand why radio communications stations are so prone to lightning strikes. Sites are generally located on elevated ground and mountain topsand have an antenna tower or mast prominently located to optimize radio coverage to the surrounding areas.

How many lightning strikes can a 30m antenna tower receive?
In an area with 150 thunderdays,which is typical of Malaysia the mean ground flash density is 15. So a 30m high antenna tower will receive on average 4.5direct strikes every  year. This is a statistical calculation but provides ample evidence of the need for effective lightning protection at these sites.

What is a total lightning protection system (LPS)?
Provides a total Lightning Protection System (LPS) which includes direct strike protection, surge protection and grounding. Why is this solution more efficient? Reduces the risk of a direct strike by lowering the electric field to below lightning-collection levels within the protected area.

How does a lightning protection system work?
Reduces the risk of a direct strike by lowering the electric field to below lightning-collection levels within the protected area. Safely collects any strikes it cannot prevent from virtually any direction,creating a larger area of protection. Designed specifically for structures that require lightweight protection with a low wind profile.

Should lightning protection systems be rejected?
There are noshort cuts and systems which purport to enhance the attraction of lightning,divert lightning,dissipate lightning or prevent lightning should be rejected. There is no solid evidence that such systems actually operate as claimed and all recognised lightning protection standards worldwide reject such systems.

A 2023 GSMA study revealed that 54% of lightning-related failures actually stem from secondary effects - electromagnetic pulses inducing currents in power lines rather than direct strikes. This ...

The utility model relates to a communication base station is with intelligent AC distribution lightning prevention box, including protective box, binding post, circuit unit group is hit in the ...

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Another protection structure, the earthing and equipotential system, ideally transfers the lightning strike safely to the ground with a resistance value below 10 ohms, which may vary depending ...

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