ContainerPower Energy Solutions

Communication base station inverter grid-connected lightning protection level price

Overview

Recent pricing trends show standard industrial systems (1-2MWh) starting at $330,000 and large-scale systems (3-6MWh) from $600,000, with volume discounts available for enterprise orders.Why is the protection level at the inverter increased?

In addition, the protection level at the inverter is increased if the overvoltage occurs at one of the other strings. When excessive voltage is applied, voltage falls via the cable inductance. If the arrangement is not ideal, the protection level at the inverter is increased (see Fig. 6).

Can lightning protection be combined with SMA inverters?

Also, special features of combining overvoltage protection devices with SMA inverters are described. The document covers lightning protection in as far as it influences overvoltage protection. Lightning protection systems are intended to prevent damage to buildings from lightning strikes.

Which SPD type should be used for a lightning inverter?

If lightning partial currents are expected, an SPD type I with connected SPD type II should be used. For inverters with one MPP tracker, the strings are combined before the inverter and connected to the SPD(s) at the point of interconnection. For inverters with multiple MPP trackers, an SPD or SPD combination should be planned for each input.

What is internal lightning protection?

The internal lightning protection provides equipotential bonding between metal installations and cables within the system. Metal and conductive system parts, e.g. water pipes, are connected directly with each other for this purpose.

What is a lightning protection system?

Lightning protection systems are intended to prevent damage to buildings

from lightning strikes. We distinguish here between internal and external lightning protection. The external lightning protection serves to collect the lightning and conduct it into the ground.

What is external lightning protection?

The external lightning protection serves to collect the lightning and conduct it into the ground. In this way, buildings and systems to be protected are saved from the effects of a direct lightning strike. The external lightning protection consists of air-termination systems, conductors, and the associated grounding arrangement.

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