

Base station power load calculation





Overview

Is there a direct relationship between base station traffic load and power consumption?

The real data in terms of the power consumption and traffic load have been obtained from continuous measurements performed on a fully operated base station site. Measurements show the existence of a direct relationship between base station traffic load and power consumption.

What is a base load power station?

The total load on a power station consists of two parts viz., base load and peak load. In order to achieve overall economy, the best method to meet load is to interconnect two different power stations. The more efficient plant is used to supply the base load and is known as base load power station.

What is base load & peak load?

However, a close look at the load curve reveals that load on the power station can be considered in two parts, namely; 1.Base load 2.Peak load 1.Base load. The unvarying load which occurs almost the whole day on the station is known as base load.

How to choose a base load and peak load station?

There is no hard and fast rule for selection of base load and peak load stations as it would depend upon the particular situation. For example, both hydro-electric and steam power stations are quite efficient and can be used as base load as well as peak load station to meet a particular load requirement.

Illustration.



Base station power load calculation

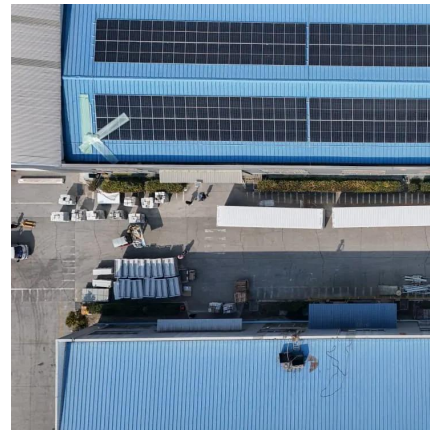


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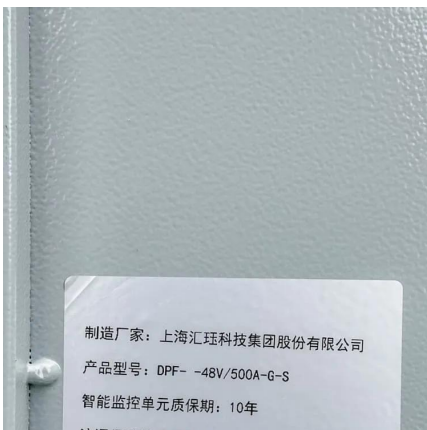
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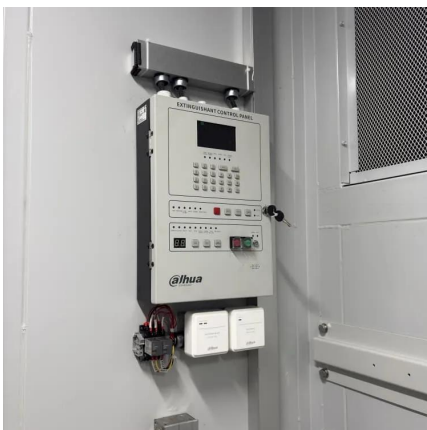


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