ContainerPower Energy Solutions

Power station underground powerhouse power generation

Overview

What is the geological structure of the underground powerhouse?

The geological structure of the main underground powerhouse is simple and there are no regional faults and large-scale faults passing through the study area. According to the statistics of exploring caves in the underground powerhouse area, the main structural planes are rock layers and joint cracks.

What is the lithology of underground powerhouse?

The main conclusions are as follows The lithology of the underground powerhouse is mainly composed of sandstone, conglomerate, and Siltstone. The rock masses have geological conditions for cave formation, and the overall stability of the surrounding rock mass is good.

Why do we need a support system for underground powerhouses?

The support system can effectively reduce the deformation and plastic zone during the excavation of the underground powerhouse. In addition, the supporting setup has obvious effects on limiting the slippage of the soft rock layers.

What is a Grade 3 Powerhouse?

The surrounding rock masses of the powerhouse are classified as grade III by the rock mass rating system (RMR) system. The burial depth of the powerhouse is 950–1050 m in the horizontal direction and 260–330 m in the vertical direction.

How many joints are there in the main underground powerhouse?

There are 386 joints with a length of more than 1 m, the development density is 0.42/m, and the spacing is 2.4 m. The joints are mostly closed, with local micro-opening and no filling. Figure 3. Stereographic projection of the main geological structures in the main underground powerhouse.

How can a large-span underground powerhouse support design be assessed?

In general, the empirical classification methods and numerical methods are useful tools for preliminary assessments of large-span underground powerhouse support designs.

Power station underground powerhouse power generation

Contact Us

For catalog requests, pricing, or partnerships, please visit: https://websparafotografos.es