

Wind power supply circuit for mining base station





Overview

Who designs mining power systems?

Traditionally, mining power systems have been designed by engineering companies (EPCs) and/or mining sector end-users using their knowledge of the industrial process and their experience from previous projects.

What is the biggest trend in mining power system design?

“The biggest trend we see today is the electrification of this fleet, with machine manufacturers modifying their vehicles to become electric, and some even fully autonomous,” Eric Delaunay, technical expert and power system design consultant, leader of the Schneider Electric Mining Power System Competency Centre, told E&MJ.

How does a mining process control system work?

The architecture allows information to be shared between the mining process and the electrical network control, as well as with the asset management systems. The integrated system provides process control engineers with real time information on the MV and LV motor feeder status, energy cost, the electric motor condition, and the START-STOP control.

Why do mines need a digital control system?

Mine power requirements will increase as operations introduce more electrification and expand production to keep up with future demand for metals and minerals, despite the removal of fossil fuels. This power consumption makes digital and automated control systems that can track and manage energy usage and re-charging even more important.”



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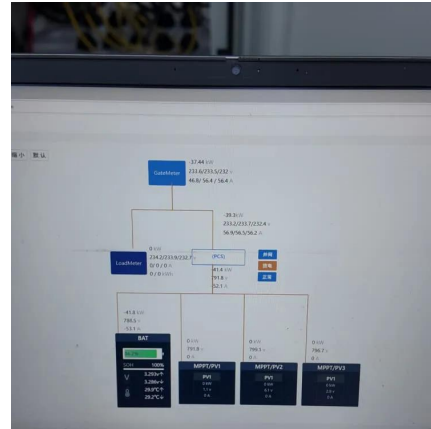
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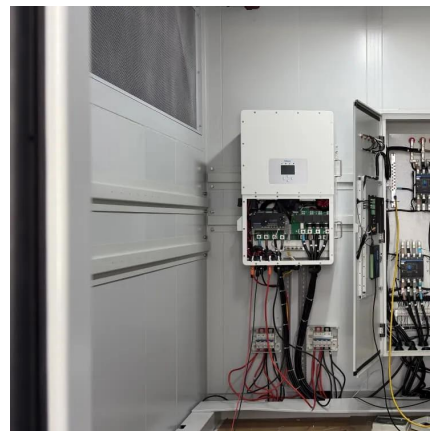
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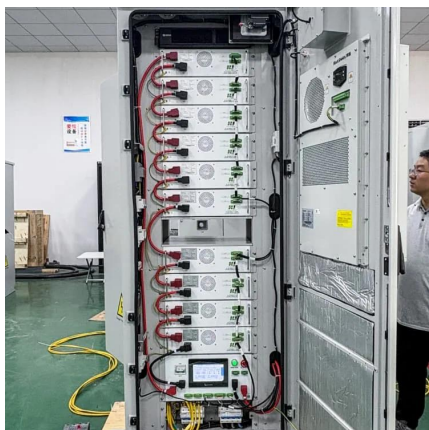
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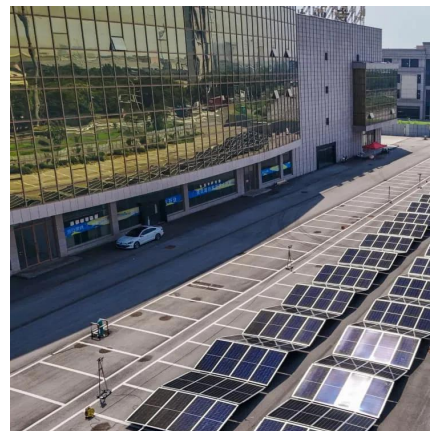


Mine Power Systems

The application of electricity to the mining industry is a distinctive area of both mining engineering and electrical engineering. The diEcult environment, the dynamic power loads, the cyclic and ...

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