5g base station generator selection

Overview

How are 5G base stations selected?

However, the selection of 5G base station locations is also influenced by local terrain and population distribution, and obstacles such as streets, buildings, and trees can significantly impact signal propagation.

Can a multi-objective 5G base station planning model be used in real life?

Finally, the simulation experiment results are analyzed and it is concluded that the multi-objective 5G base station planning model combined with genetic algorithm has high coverage and feasibility in real life, and then provides a new direction for base station location selection.

Which area is selected to optimize the coverage of 5G base stations?

As shown in Fig. 8, an area covering an area of 25 square kilometers in Jilin City is selected as the location for dense urban areas to optimize the coverage of 5G base stations. Fig. 8. Distribution of initial base stations in dense urban areas.

Does a 5G base station save the cost of building a station?

Layout results of 5G base station in dense urban areas. From the simulation comparison results in Tables 8 and it can be seen that when $m_1 = 0.3$, $m_2 = 0.7$, although the coverage target function result is slightly lower than the 92.8 % coverage result, the result saves the cost of building the station.

How many 5G base stations are there in general urban areas?

According to Section 5, the number of base stations in general urban areas ranges from 20 to 36. Therefore, in the simulation experiment, the optimal results of the base station layout are shown in Table 10. Table 10. Layout results of 5G base station in general urban areas.

What is the application effect of a 5G base station?

The actual application results show that the application effect of this method in 5G network can reach 29%, which is in the same industry leading position . The selection of base stations should comprehensively consider various indicators, such as sharing rate, planning accuracy rate, and planning depth.

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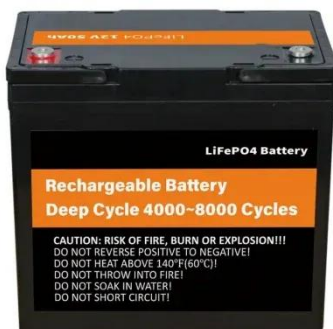
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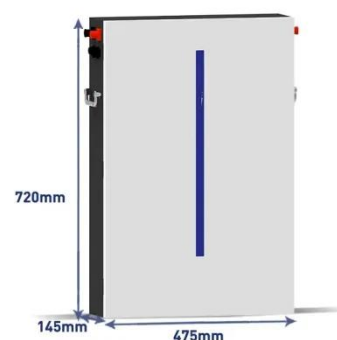

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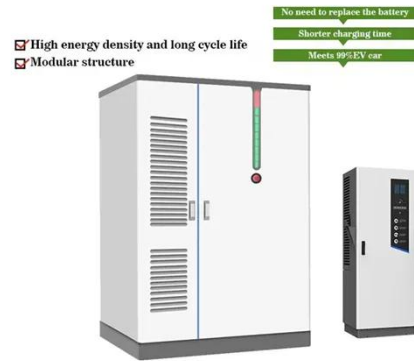
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