Comparative Test of Two-Way Charging in Folding Containers Used in Steel Plants

This paper introduces three different shapes of wireless charging containers (i.e. quadrangular prism, octagonal prism, and hexagonal prism) and presents optimal current flow designs for ...

The concept of using folded coils to uniformize the magnetic flux density inside wireless charging space frames has been validated by a cubic wireless charging chamber. In ...

This article presents a novel coil design method for cubic wireless charging space frames to achieve even magnetic flux density distribution inside. The method is demonstrated ...

This paper presents an octagonal prism-based wireless charging container with multiple folding coils winding equidistantly around the surface of the container. The optimal coefficient for the ...

The two orthogonal folding coils are capable of generating rela-tively uniform magnetic fields within the wireless charging container. Operation of a singular coil allows the receiver to ...

realized. Experiment is carried out on a cubic wireless charging container with a diameter of 1m to verify the effects of the WPM. Citation: Shang S, Wang K, Liang R, Tang K, ...

The optimized folded coil designs for octagonal prism-based wireless charging containers have been verified to effectively enhance the magnetic field distribution inside the ...

This paper presents a comparative study of the magnetic flux density distribution inside two shapes, namely cubic and octagonal-prism-based, wireless charging chambers controlled by ...

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