

# **Container ship generator voltage range**





## Overview

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How much power does a container ship need?

In container ships, the necessary power from the medium-voltage system for two to three cargo bays each is transformed to 440 V and the plug distributors are fed into the various tiers in a distributor with 6-8 containers each. To ensure availability, these systems are usually unearthed.

What is a high voltage shore connection system (hvscs)?

1.2 These Guidelines are applicable to vessels equipped with a High Voltage Shore Connection System (HVSCS) or a Low Voltage Shore Connection System (LVSCS) designed to power the vessel with shore power, enabling the shipboard generators to be shut down while in port/ at berth.

What is the power distribution system on a container vessel?

For example, on a modern container vessel with high reefer load, the power distribution system onboard vessel consists of a main 6.6kV switchboard, main 440V switchboard and the 440V emergency switchboard. The normal operating condition of the network is as follows:.

How does an emergency generator work on a ship?

The autostarting of an emergency generator is a critical safety feature on ships, ensuring that the generator automatically starts during a main power failure. The key component in this system is the sensing relay, which monitors the voltage from the main switchboard.



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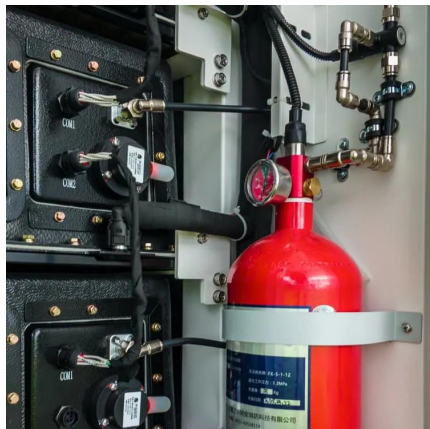


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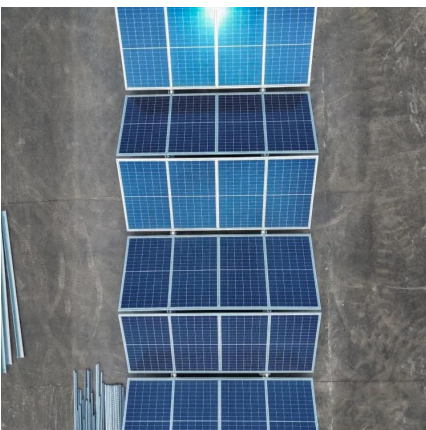
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### [GUIDELINES FOR HIGH VOLTAGE SHORE CONNECTION ...](#)

Dec 22, 2022 · 1.2 Scope The Guidelines apply to ships that have shut down the on-board generators while at berth, and are supplied power only through high voltage shore connections.

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