

## SolarTech Power Solutions

# Container communication high voltage power generation



## Overview

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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 a high-voltage shore connection system?

They have been designed according to the IEC 80005 standard for high-voltage shore connection systems. The standard applies to container ships, cruise ships, RoRo cargo ships, LNG carriers and tankers. It can easily be applied also to other vessel types, including those that require a low-voltage system such as bulkers or offshore vessels.

What is a high voltage power supply?

y 6.6 kV or 11 kV as stipulated in the IEC standard. This high voltage power supply generally supplies power to the on-board power receiving switchboard through high voltage flexible cable arranged by the ship, the shore connection switchboard and the transformer. The shore connection switchboard.

Is 15 kV AC considered high voltage?

15 kV AC is considered as high voltage for the purpose of these Guidelines.  
3.6 High Voltage Shore Connection System (HVSCS): The system on-board a vessel that is designed to receive high voltage shore power.

What generating systems can be integrated into a power center?

In addition to the generating units required for safety power supply, more power generating systems such as combined heat and power stations (CHP) and renewable energy sources such as photovoltaic systems, wind turbines, geothermal energy etc. can be integrated into the power center.

What is the nominal voltage of HVSC?

5.4.1 The nominal voltage of the HVSC is to be 6.6 kV. 5.4.2 Two parallel cables with three pilot conductors each is to be used for HVSC systems up to a maximum power demand of 7.5 MVA. 5.4.3 The cable management system is to be located on the ship.

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