



DF5010 Catalogue

Onshore Power Supply System

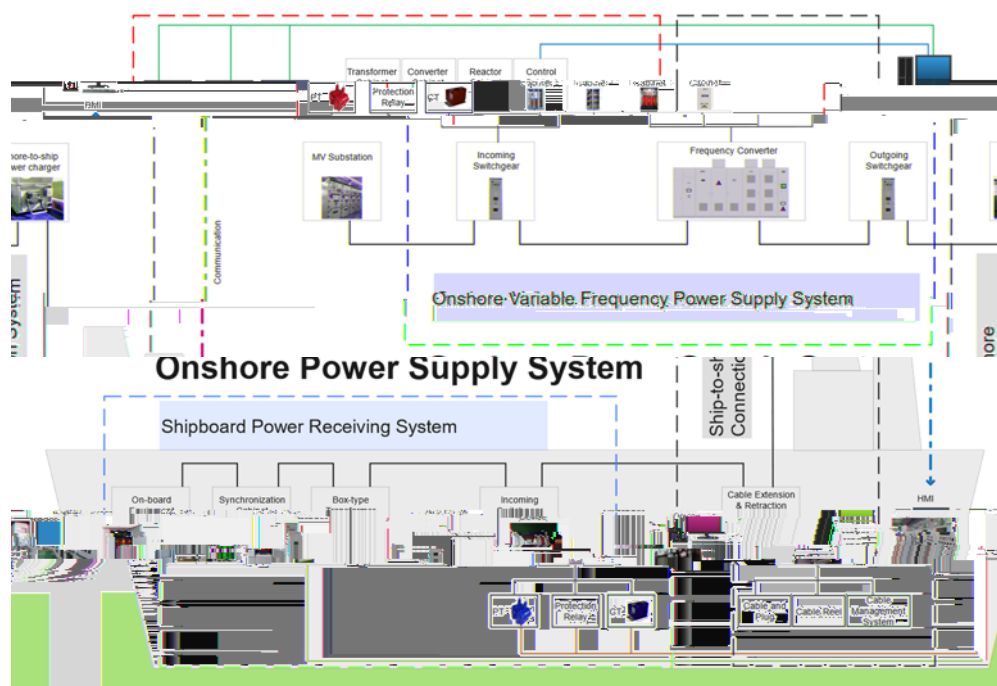


For Reliable, Secure and Economical Energy System Operation

Dongfang Electronics International Engineering Co., Ltd.
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1 Onshore Power Supply System

1.1 Composition of Onshore Power Supply System



Onshore variable frequency power supply system

Ship-to-shore connection system

Shipboard power receiving system:



1.2 Main Functions

1) Power conversion:

2) Ship Connection Method

High-voltage ship connection:

Low-voltage ship connection

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3) Shore-to-ship Power Supply Method:

Connection without ship's power running:



Connection with ship's power running:

- 4) **Metering and Billing:**
- 5) **Real-time Monitoring:**
- 6) **Integrated Control:**

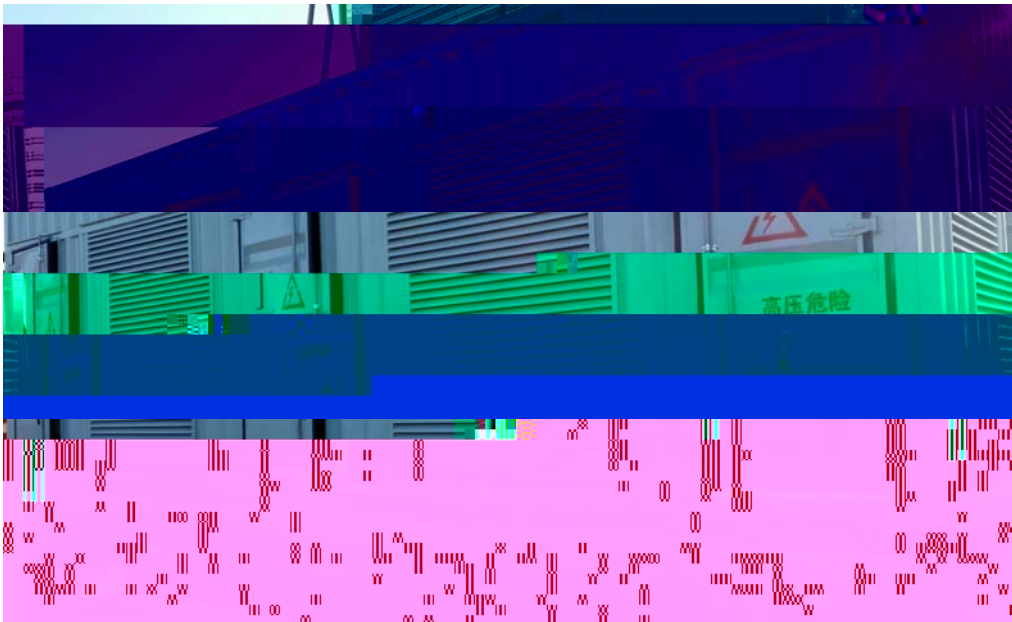


2 Product Overview

2.1 Onshore Variable Frequency Power Supply System

2.2 Equipment Composition

1) Main Components





2) Component Function

Phase-shifting Cabinet

Converter Cabinet

Impedance Cabinet

Isolation Transformer Cabinet

Control Cabinet

2.3 Main Parameters

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2.4 Technical Features

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3 Onshore Power Supply Solutions

3.1 Solution Categories

1) Variable Frequency Solution

High voltage variable frequency solution:

Low voltage variable frequency solution:

2) Grid Frequency Solution

High voltage grid frequency solution:

Low voltage grid frequency solution:

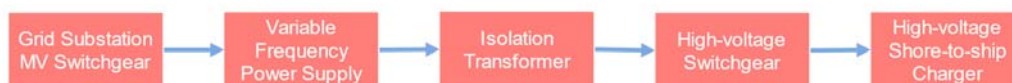
3.2 Ship Connection Method

High-voltage ship connection:

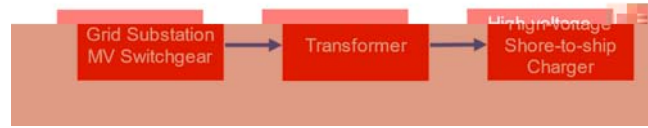
Low-voltage ship connection:

3.3 Basic Solutions

1) High Voltage Ship Connection and High-voltage Variable Frequency Power Supply Solution



2) High Voltage Ship Connection and Grid Frequency Power Supply Solution

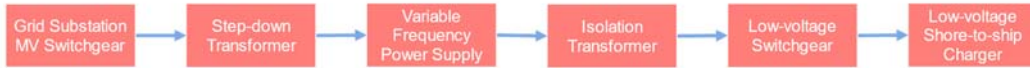


3) Low Voltage Ship Connection and High-voltage Variable Frequency Power Supply Solution

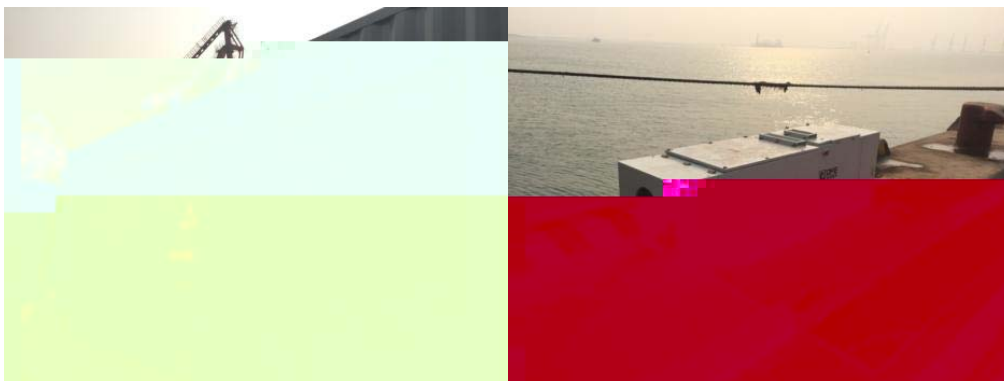


4) Low Voltage Ship Connection and Low-voltage Variable Frequency Power Supply Solution

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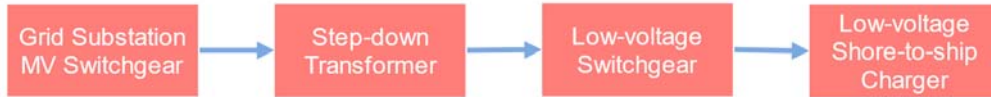


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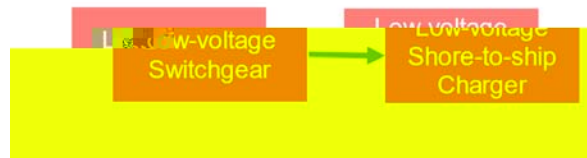


5) Low Voltage Ship Connection and Low-voltage Grid Frequency Power Supply Solution

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Note:				

4.2 Shipboard Power Receiving System Reformation References

Project	Power Receiving Method	Capacity	Quantity	Ship Name

