

# **25kW Copenhagen Folding Container Power Supply for Power Grid Distribution Stations**





## Overview

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What is the new onshore power facility in Copenhagen?

The new onshore power facility in Copenhagen port, co-financed by the EU, is the largest in Europe. The facility will be able to supply electricity to cruise ships docking at Océankaj and Langelinie terminals, and to ferries docking at Søndre Frihavn.

Does powerCON provide shore power solutions for container terminals?

Over the recent years, PowerCon has started to supply shore power solutions for container terminals. Creating a new project named “PowerFlex”, PowerCon set out to design and implement low-cost and flexible shore power supply for containerships and include onboard battery charging into the system design.

What types of vessels does powerCON cover?

PowerCon supplies both high and low voltage shore power solutions and covers all vessel types, from the largest cruise ships to container ships to smaller fishing vessels and ferries as seen from some of our main references below.

Which port in Sweden has a high voltage station?

Port of Gothenburg has been one of the Swedish pioneer ports in terms of OPS, having had the first installation since the 1990s for low voltage connections. In 2000, a high voltage station was implemented at the request of and in cooperation with cargo owner Stora Enso for ro-ro vessels.



## 25kW Copenhagen Folding Container Power Supply for Power Grid

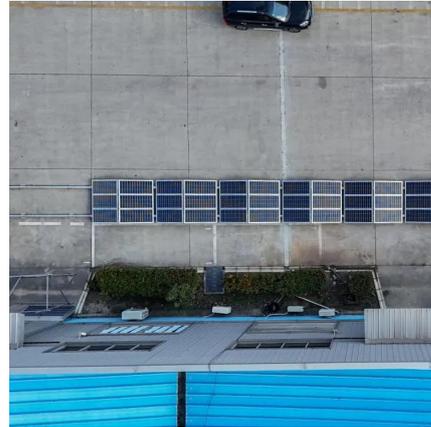


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### TIP manual , Power distribution for ports and harbors

Electricity is largely procured from the grid operator and used for Ship-to-Shore container cranes (STS), refrigerated container (reefer), electrical Rubber Tire Gantry (eRTG), lighting, air ...



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Energy saving options  
Diagram of a port and its properties  
Smart Grids  
Reduction Deployment  
Energy management  
Energy procurement and in-facility generation possibilities  
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General planning  
Medium-voltage switchgear  
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Low-voltage distribution  
Connections  
Energy consumption characteristics  
Planning criteria  
Electric power supply design principles for a port  
Example for the layout of a substation in the maximum safety category  
Instrumentation and control  
Operator control and monitoring  
Status acquisition and control  
Characteristic values  
Low-voltage feeder at the double busbar system  
Direct supply of important power consumers  
Supply concept for shop areas  
TUMETICAir-insulated medium-voltage switchgear  
Protecting, controlling and monitoring (energy automation)  
Building installations  
Building control systems  
Drives  
Planning tools  
SINCALSIMARIS design  
SIMARIS planning tools provide efficient support  
Planning power distribution  
Integration is the key  
Results: Results: Reference project: Qatar's new Hamad Port  
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