Container ship power generation calculation

This paper presents a method of optimizing generator capacity for a representative container ship that is currently in the trend of enlargement. The proposed strategy is simple, so it is ...

And unlike on land, there"s no grid to lean on. Out at sea, the ship must generate, regulate, protect, and--when things go wrong-- restart its own electricity. This article is a complete, practical tour of ...

Using a simple linear regression model based on the least squares method, a formula was developed to predict the electricity generation capacity of very-and ultra-large container ships at the...

In this article, the authors present the impact of the nature of the generator"s load on its efficiency, and hence on the determination of the load factor in auxiliary engines. Key words: load factor of auxiliary ...

To enhance power generation eficiency and reduce energy cost, a new load analysis method for marine vessels is proposed in this paper. The relationship of operation eficiency and load...

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The paper aim is to present the characteristic parameters for propulsion systems of feeder container ships which would specify the relations of shaft generators" powers to the main engine power, ship ...

Since all connected load equipment does not draw full power continuously, we must use their load factors for deriving the combined contribution to the ship generator kW capacity requirement.

It has also been adapted to study four ship types, which represent the majority of the world fleet: tankers, bulk carriers, container ships, and RoPax. The resulting equations of the power consumption were ...

Containerships consider the changes of a propulsion system for improving energy efficiency. Three configurations for the electric propulsion system are suggested in a large container ...

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