

# DOCK BOOST TRANSFORMER

# About

- ASEA Power Systems is a world leader in the design and fabrication of marine shore power equipment ranging in power from 8 – 1000+kVA.
- Product applications include shore power converters, boosting transformers, generator management modules, clean grid converters and custom engineered designs.
- With distributors in over 50 countries, ASEA Power Systems has one of the largest technical support and service networks in the marine power industry.



# The Dock Boost Transformer

HOW IT STARTED, MEASURING UP, FEATURES AND MODELS

# How It Started



- The Charles Iso-Boost™ was arguably the most popular boosting transformer in the marine industry.
- The discontinuation of the Charles Iso-Boost™ in 2016 left people looking for a viable replacement.
- After an extensive voice of customer study, the Dock Boost Transformer was developed as an advanced, feature rich replacement

# Measuring Up



SPECS	DOCK BOOST TRANSFORMER		ISO-BOOST™
Input Current	50 amps continuous	✓	50 amps continuous
Input Voltage	167-270 VAC	wider	167-255 VAC
Output Voltage	207-264 VAC	✓	192-255 VAC
Power Level	12 kVA	✓	12 kVA
Boosting Levels	3 taps	smarter	1 tap
Frequency	50/60 Hz	✓	50/60 Hz
Dimensions	30 x 33 x 47 cm / 12 x 13 x 19 in	smaller	30 x 38 x 45 cm / 12 x 15 x 18 in
Weight	58 kg / 127 lbs	lighter	107 kg / 235 lbs

# Features

- Drop-in replacement for the Charles Iso-Boost™ with an industry recognized mounting pattern
- 3 boosting levels with smart tap system
- Input range of 167-270
- Parallelable for dual shore cord operation
- Lightweight and compact
- Full isolation transformer



# Models



DBT12

DBT15

DBT24

**Single units in 12, 15 and 24kVA**

**Paralleled systems in 24 and 30kVA**



Trident24

Trident30

# Builders and Installations

**DUFFIE BOATWORKS**



**WINTER**

**GB**  
**GRAND BANKS**



**viking**  
*yachts*





# Why use an isolation transformer?

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## Non-Isolation Transformer

- ✗ Leaky fault current hazard
- ✗ Reverse polarization risk
- ✗ Galvanic corrosion requires expensive components to be replaced

## Isolation Transformer

- ✓ No risk of leaky fault current, even if nearby vessels are not isolated
- ✓ No risk of reverse polarity
- ✓ Protects against galvanic corrosion



# *Power Systems* **A/SEA**

*A MISSION CRITICAL ELECTRONICS BRAND*



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