

# 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



Single units in 12, 15 and 24kVA

Paralleled systems in 24 and 30kVA



# Builders and Installations

**DUFFIE BOATWORKS**



**WINTER**



**GB**  
**GRAND BANKS**



**viking**  
*yachts*



# Why use an isolation transformer?

## 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



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