

THE ULTIMATE
POWER
STABILIZATION
& ISOLATION SYSTEM
..... FOR YACHTS

YACHT  BOOST 

“INNOVATIVE TECHNOLOGY FOR THE MARINE INDUSTRY BY”

THE
YACHT
GROUP



Innovative Technology For The Marine Industry By



Yacht boost is the perfect current stabilizer, isolator and booster for your boat. Offering Maximum Protection!

The following chart shows the main system features; ➔



FEATURES	YACHT BOOST
Steps	Three (3) steps
Transformer	Toroidal
Soft	Start Incorporated
Auto	Restart Incorporated
By-pass	Incorporated
Electronic Switching	Seamless system
Weight	Light weight
Models Available	7
Warranty	2 years





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APPLICATION

Yacht Boost combines an Isolation Transformer with Boost voltage and Increased current in order to provide an automatic corresponding increase of line voltage and complete safety to your boat and its equipment.

Yacht Boost increases the boat's voltage if and when it decreases due to low shore voltage caused by dock out put conditions.

The Yacht Boost Marine Isolation Transformers provide the correct voltage to the on-board equipment (*within a given range*), as well as preventing equipment from turning off or burning out in the event of a sudden voltage drop or excessive increase.

Our Marine Isolation YACHT BOOST Transformer ensures the stability of power and the protection of all the marine electrical equipment on board when instability of shore power occurs.

Moreover, our **SOFT START** system allows the boat to be safely connected to the shoreline, limiting the peak current that normally occurs when the power cord is initially connected.

Yacht Boost hosts its superior electronic circuitry keeping your boat's power supply at the correct level, avoiding damaging and unexpected voltage drops that affect lighting or other installed equipment.

Yacht Boost is equipped with a **BY-PASS system**, which will supply the power directly from the shore voltage and also guarantees the isolation of power on the boat.

Yacht Boost has an automatic Auto-Restart from high voltage, low voltage, blackout and overload, so there is no need for any manual intervention.

FUNCTIONING

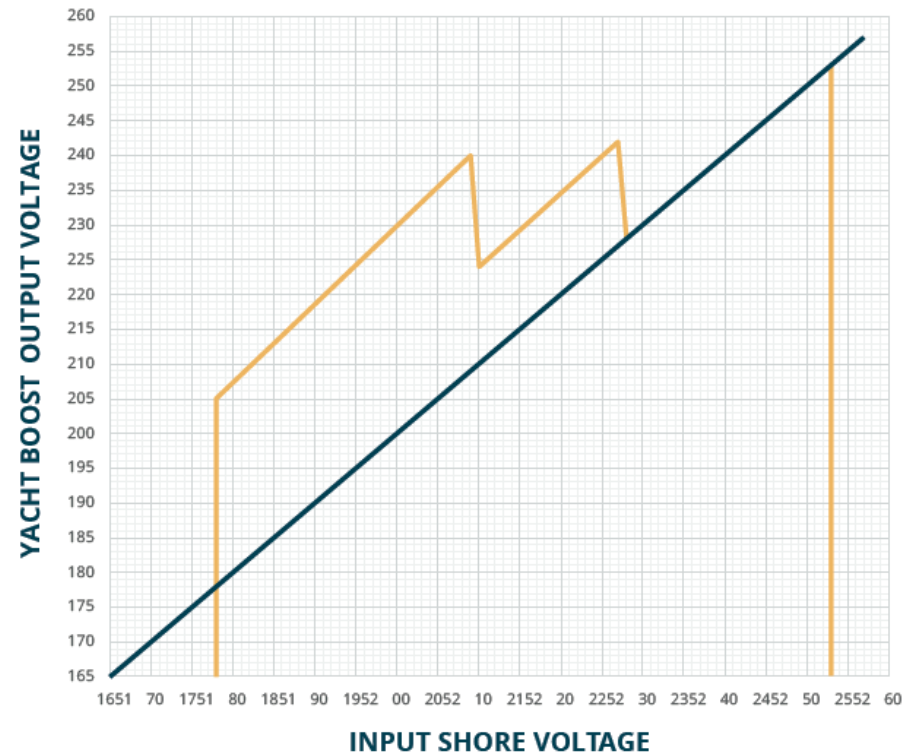
The Yacht Boost is designed to power the boat from a nominal voltage of 240 V with three operating thresholds:

- Shore Voltage from 178 to 209 V (+/- 3V):
output voltage from 210 to 240 V (+/- 3V)
- Shore Voltage from 210 to 227 V (+/- 3V):
output voltage from 224 to 242 V (+/- 3V)
- Shore Voltage from 228 to 253 V (+/- 3V):
output voltage from 228 to 253 V (+/- 3V)

If the shore power input voltage is less than 178V or higher than 253V, the YACHT BOOST output is deactivated thereby keeping your boat's equipment safe

YACHT BOOST GUARANTEES THE MAXIMUM OUTPUT CURRENT EVEN IN BOOST MODE.

The following chart shows the stable output voltage curve provided by Yacht Boost compared to the Shore Voltage.



LED INDICATOR PANAL

Yacht Boost is provided with an LED control panel that indicates the operating condition of the equipment. The lights indicate the operating status of the Yacht Boost.



- **POWER: Green Led Light**
Non-Boost Mode. Boat Voltage equals Shore Voltage.
- **BOOST: Yellow Led light**
Boost Mode ON.
- **OVER TEMPERATURE: Red Led Light**
Thermal Protection automatically shuts down the system until the temperature returns to a safe operating level.
- **LOW VOLTAGE: Solid Red Led Light**
Shore Input Voltage below 178VAC, the system shuts down to protect the boat's electrical equipment.
- **HIGH VOLTAGE: Flashing Red Led Light**
Shore Input Voltage over 253VAC, the system shuts down to protect the boats electrical equipment.
- **BY-PASS: Red Led Light**
Manual By-Pass ON. NON-Boost Mode, Boat Voltage equals Shore Voltage. Isolation Protection ON.



MAIN FEATURES

Yacht Boost is CE and ISO 9001 certified, it is manufactured with UL CERTIFIED components and complies with ABYC E-11 Standards.

SEAMLESS SYSTEM: the Yacht Boost transfer system is seamless in order to avoid power interruption during the switching. The system automatically chooses the optimal point of switching without loss of power.

OVERLOAD ENDURANCE: Yacht Boost is designed to withstand 30% overload for at least one hour.

ELECTRICAL PROTECTION: Yacht Boost is provided with a protective shield. The shore grounding conductor is connected to a shield between primary (*shore*) and secondary (*boat*) transformer windings. This shield assures isolation on the boat for electrical protection.

BY-PASS SYSTEM: Yacht Boost is provided with a manual By-Pass system that allows you to manually disconnect the Boost mode in case of breakdown and supply power from the shore. The by-pass system guarantees the isolation protection on the boat.

SOFT START SYSTEM: Yacht Boost is provided with Soft Start System that assures the minimal current in-rush during the connection of the system to shore power.

FULL OUTPUT POWER GUARANTEED: Yacht Boost ensures full output power even in boost mode. The output voltage is always stable.

MAIN FEATURES AUTOMATIC THERMAL PROTECTION: Yacht Boost is provided with a thermal protection that automatically shuts down the system until the temperature returns to a normal level should it heat up. The unit will automatically restart when the temperature returns to a safe operating level.

AUTO-RESTART: Yacht Boost automatically re-starts after high voltage, low voltage, blackout, and overload. Yacht Boost is equipped with very low peak transformers.

The Yacht Boost is provided with a cooling fan system.

STATIC SYSTEM: The static switch does not need any maintenance, the only required maintenance is the filter cleaning.

YACHT BOOST: increases the output voltage in two steps up: 15% (1st step) and 7.5% (2nd step).

¥ 1st Step: from 175V to 209V + 15%

¥ 2nd Step: from 210V to 227V + 7.5%

¥ 3rd Step: from 228V to 253V nonBoost Mode (*Shore Supply*)

The result is a more balanced power supply, eliminating over voltages in the range 200/205 Vac and increasing the voltage in the range 205/227 Vac. covers a wide voltage range gradually increasing the output voltage. (*See graph Aluminum Construction, Anti-Rust. 2 year International Warranty.*)

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