



Zenoro Hybrid Technology for superyachts

Zenoro also offers state of the art heavy duty hybrid generator sets up to 750 kW DC for both propulsion and/or onboard power demand. Generator sets configurations are possible with fixed speed, dual speed either variable speed settings.

Zenoro, a great choice!

Zenoro, a great choice for reliable, quiet, fuel efficient, clean and very compact hybrid generator sets, all customised and configured for your superyacht to enable an optimum engine room layout.

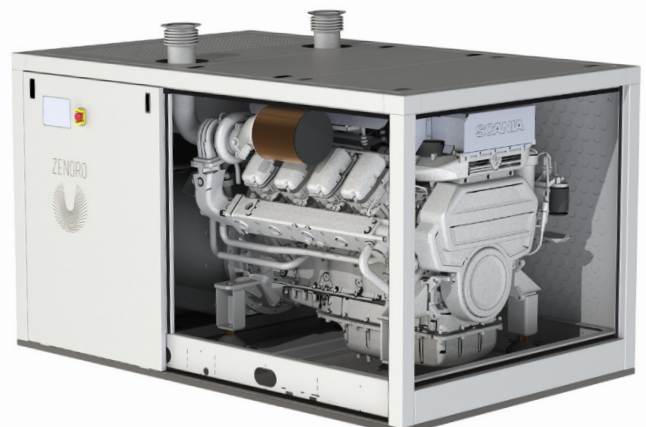
Our modular sound enclosure can easily be adapted for any hybrid variant. All the regular options of our generator sets are available to meet any requirement.

Each generator set is built up with a permanent magnet alternator which is water cooled and highly efficient. A water cooled inverter is integrated in the design of the generator set to convert variable AC to DC power. This allows an easy integration connection with your 750 VDC bus bar systems.

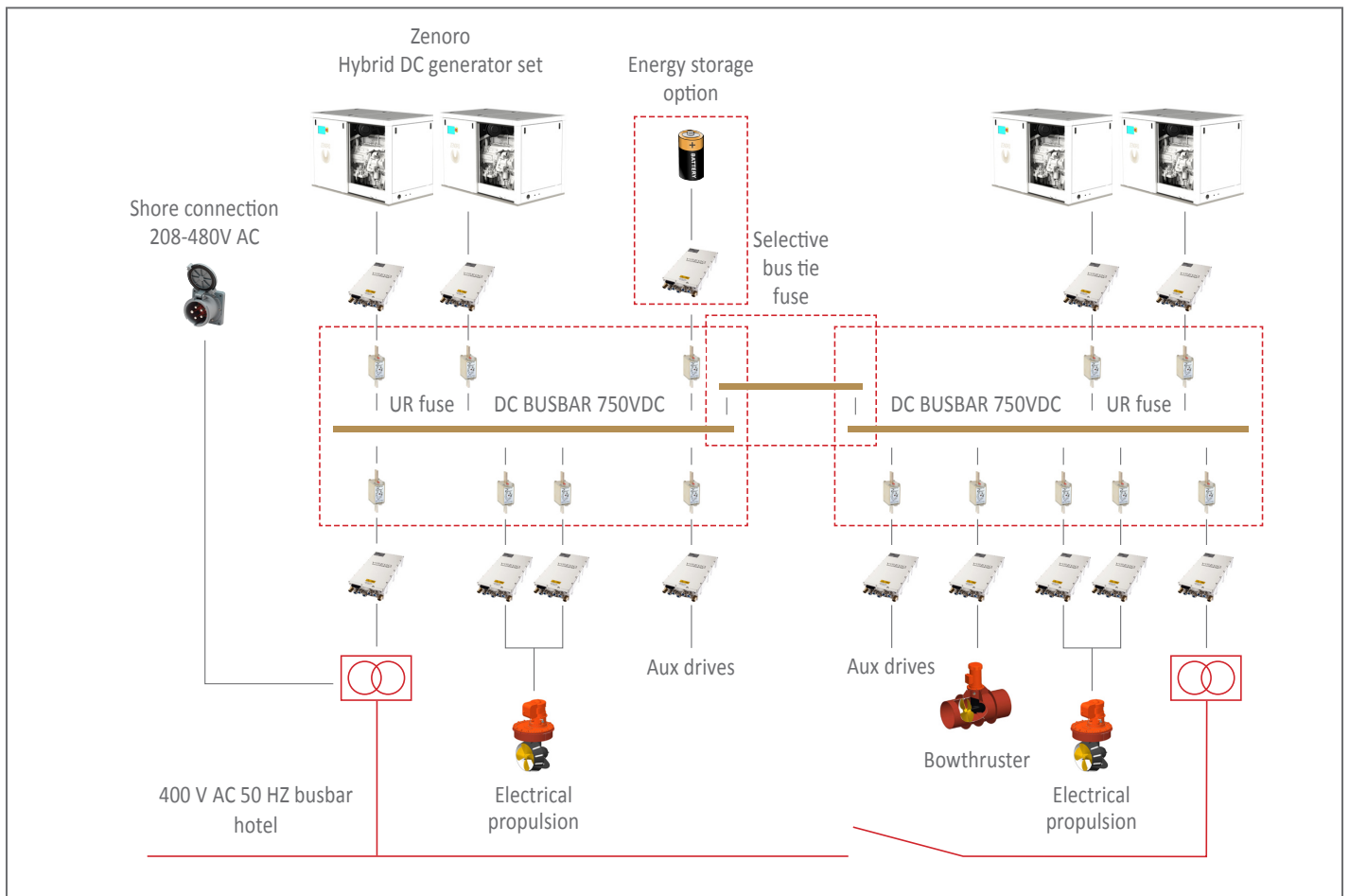
Our hybrid generator sets are always factory load tested and optional classified by all classification societies as Lloyds, ABS, BV, GL-DNV & other.

Consultancy and pre-engineering

Various hybrid configurations can be calculated up front on fuel efficiency towards project requirements. Together with preferred high quality component suppliers we detail out optimum hardware combinations for diesel engine and alternator.



Principle of a DC bus system in combination with Zenoro DC hybrid generator sets and electrical propulsion

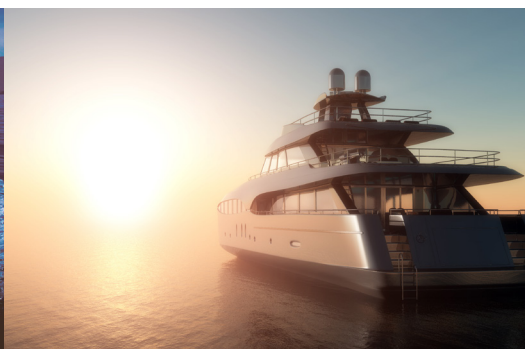
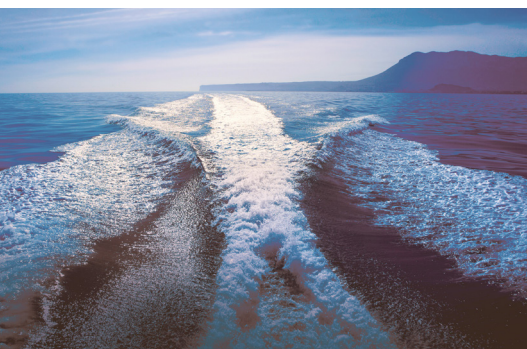


ENERGY STORAGE OPTION

Energy storage with batteries for hybrid allows possible benefits as:

- Silent sailing, ultimate level of comfort
- Zero emission temporarily, no particulates, no diesel smell, no noise and no vibration during swimming and anchoring
- Smaller generator sets, optimized for average power instead of peak demands
- Power boost mode, extra speed at the top end
- Facilitate super-quiet cruising at slow speeds without any engines turning
- Charge batteries with left over power, for proper loading of the generators, high fuel efficient.

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Premium Generators
 for Superyachts