

M/V SANCTUARY

Vessel Electrical System Topology

System Schema:

The schema of Sanctuary's vessel-wide electrical system contains three major divisions, as follows:

1. **AC electrical system** division of the vessel includes:
 - 120V Shore Power inlet connections
 - AC Generator (Genset)
 - Generator Transfer Switch
 - AC Branch Circuit Distribution Panel(s)
 - Galvanic Isolator
2. **DC electrical system** division of the vessel includes:
 - Battery Bank
 - Propulsion Engine Alternator
 - DC Branch Circuit Distribution Panels
 - Individual Component Attachments (Thrusters, Windlass, Autopilot, Entertainment, Inverter/Charger, etc)
3. **Power Conversion Interface** of the vessel includes:
 - Magnum MS2012 Pure Sine Wave Inverter/Charger

