

Power and Propulsion Solutions

Accessory Power System (APS2)

BAE Systems' Power and Propulsion Solutions business area provides products to increase a vessel's operating efficiency and performance while saving fuel, operational costs, and our environment. With more than 20 years of experience in hybrid propulsion, BAE Systems is partnering with leading manufacturers of marine diesel engines to provide complete, efficient propulsion and auxiliary power systems.

Accessory Power System (APS) provides 24/28 volt power to support a range of electronic components (e.g., cooling fans, cooling pumps, and all conventional 28V systems and accessories). The APS also provides 208/230VAC three-phase power for the electrification of large accessory loads (e.g., air compressors, power steering, and air conditioning). The APS is packaged in a compact liquid-cooled unit for ease of installation and performance. APS supports the HDS100, HDS200, and HDS300 systems.



Benefits

- Provides accessory power to off-load the vessel's engine
- Increased fuel economy and reduced emissions from reduced parasitic load
- Eliminates oil blow-by in air compressor, which contaminates the pneumatic system
- Greater reliability and increased life of sub-components
- Ease of maintenance
- Safer — eliminates belts and hydraulic lines
- Quieter, smoother accessory operation
- Reduces emissions

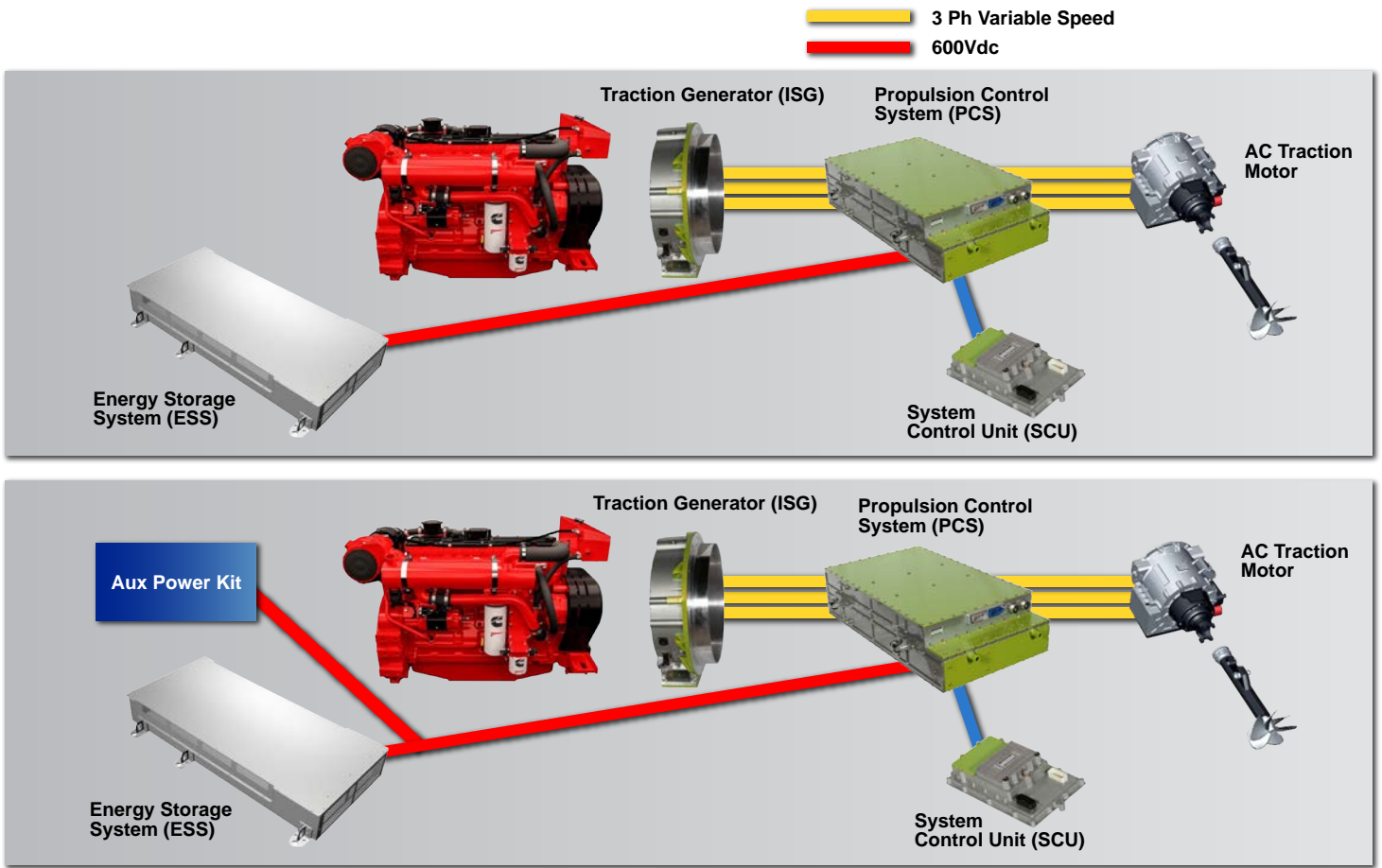
Accessory Power System APS

RATINGS

- DC/DC Converter: 14 kW (510 Amps @ 27.5 Vdc) at battery post
- Auxiliary Power Inverter: 30 kW (104 Amps per phase, 208/230 Vac, 37.5 kVA_m 3-phase, 50/60 Hz, 0.8 PF), Variable Frequency Drive (VFD) with dv/dt limiting (compatible with general purpose motors)
- Coolant temperature for full performance: -40° to 149° F (-40°C to 65°C)
113°F (45°C) nominal
- External ambient: -40° to 167°F (-40° to 75°C)

SIZE

- Height: 10 inches (254mm)
- Width: 19.5 inches (495 mm)
- Length: 27 inches (686 mm)
- Weight: wet: 167 lbs (82 kg)
- Coolant: water ethylene or propylene glycol 15 gpm (57 lpm)



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