

Auxiliary Power System (APS-2)

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 naval architects and shipyards to provide complete, efficient power and propulsion solutions.

Auxiliary Power System – APS-2 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-2 also provides 208/230VAC three-phase power for the electrification of large accessory loads (e.g., air compressors and air conditioning). The APS-2 is packaged in a compact liquid-cooled unit for ease of installation and performance.

Features

- SAE 1939 CAN interface
- Operation and diagnostics fully integrated with each system
- APS-2 is liquid cooled for superior thermal management and control

Benefits

- Rugged, durable, and highly reliable
- Standard communications interface
- Supports prognostics health management
- Provides accessory power and removes parasitic loads from the engine
- Increased fuel economy and reduced emissions
- Greater reliability and increased life of sub-components
- Safer - eliminates belts and hydraulic lines
- Quieter, smoother accessory operation



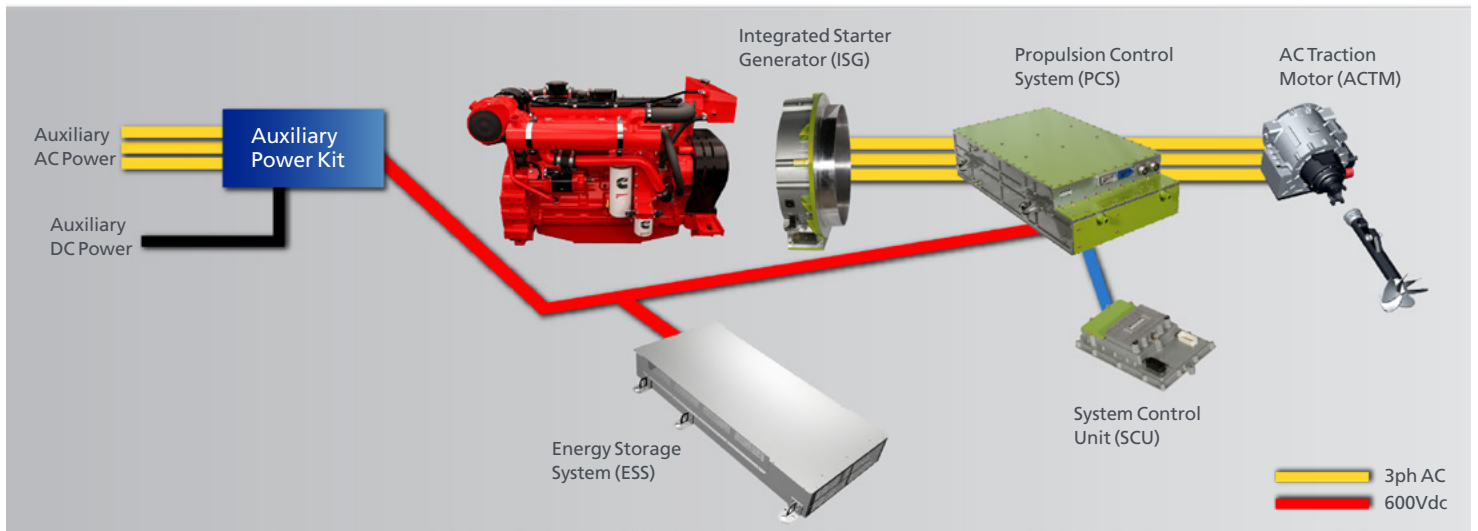
Ratings

- 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 kVAm 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°C to 65°C (-40° to 149° F) 45°C (113°F) nominal
- External ambient: -40°C to 75°C (-40°F to 167°F)

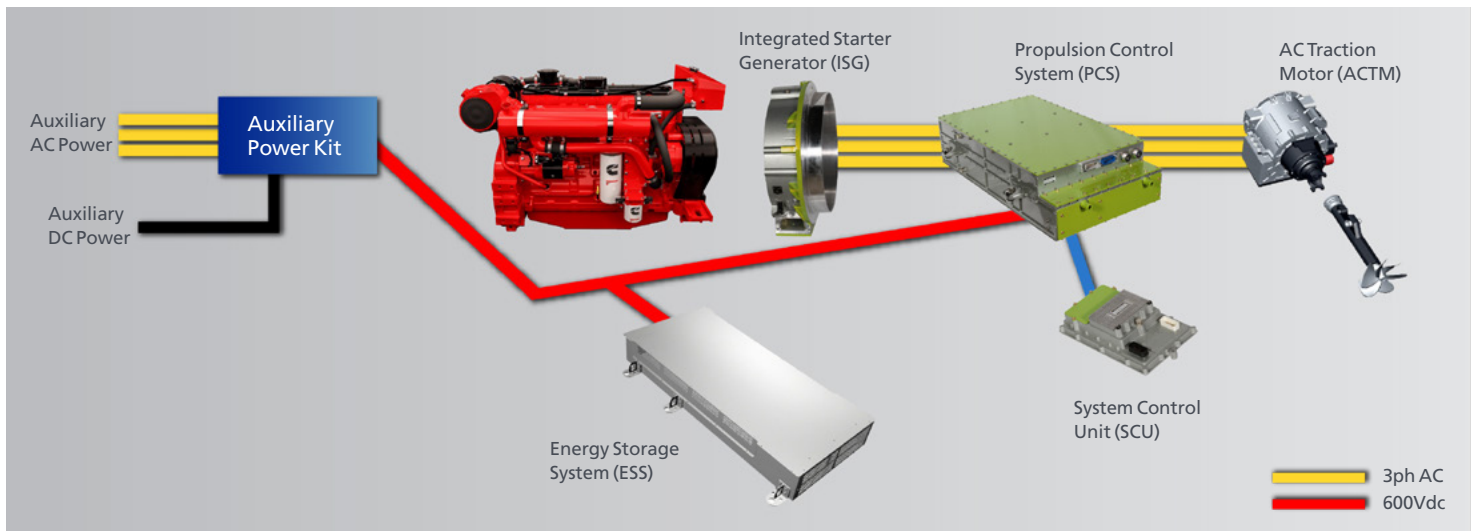
Size

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

Starboard



Port



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