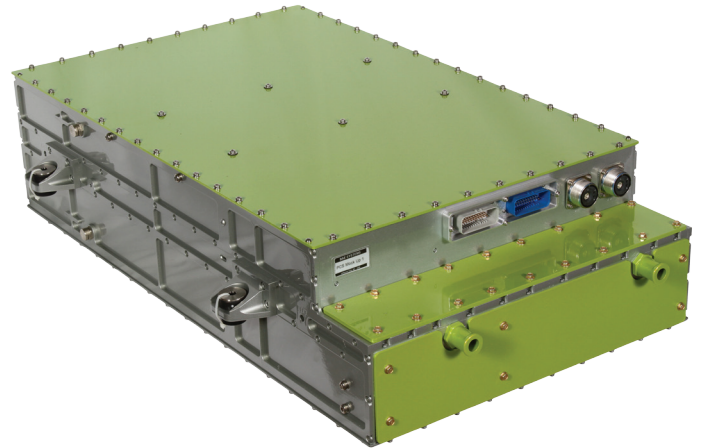


HYBRIDRIVE® PROPULSION CONTROL SYSTEM (PCS)

HybriDrive® Propulsion Control System (PCS) is the power processing and power management center for the entire HybriDrive system. It works in conjunction with the brain of the HybriDrive system, the System Control Unit (SCU), which provides the system monitoring and control. The SCU can be either mounted on the propulsion control system or elsewhere within the vehicle depending on your space requirements and needs. These systems control the optimal flow of power to and from the traction motor, generator, and energy storage system.

Our PCS and SCU enable the overall system performance to be customized to an operator's specific requirements and provide diagnostic information to enhance maintenance of the entire HybriDrive system. PCS and SCU are available for both the HDS 200 and HDS 300 systems.



Features

- Selectable acceleration and regenerative braking settings
- Onboard diagnostics
- Optional Electronics Cooling Package (ECP) is available to OEMs
- SAE 1939 CAN interface
- System control and vehicle interface electronics mounted externally
- Optional high voltage output to support electric heater
- PCS is liquid cooled for superior thermal management and control

Benefits

- Rugged, durable, and highly reliable
- Flexible installation and cooling
- Standard communications interface
- Supports prognostics health management
- Optional heater output, eliminates need for fuel-fired heater
- Performance can be tailored to customer needs

HybriDrive Propulsion Control System (PCS)

Ratings

- Power: 2 x 200 kW continuous
- Operating temperature:
- Coolant temperature: -40°F to 149°F (-40°C to 65°C)
113°F (45°C) nominal
- External ambient: -40°F to 167°F (-40°C to 75°C)

Size

- Length: 36.2 in. (919 mm)
- Width: 22.4 in. (569 mm)
- Height: 9.3 in. (237 mm)
- Weight — wet: 188 lbs. (85 kg)
- Coolant — water ethylene/glycol (or propylene glycol)
15 gpm (57 lpm)

HybriDrive propulsion system components are sold as part of our HDS family of products and are available through BAE Systems qualified OEMs. Components are not sold separately.

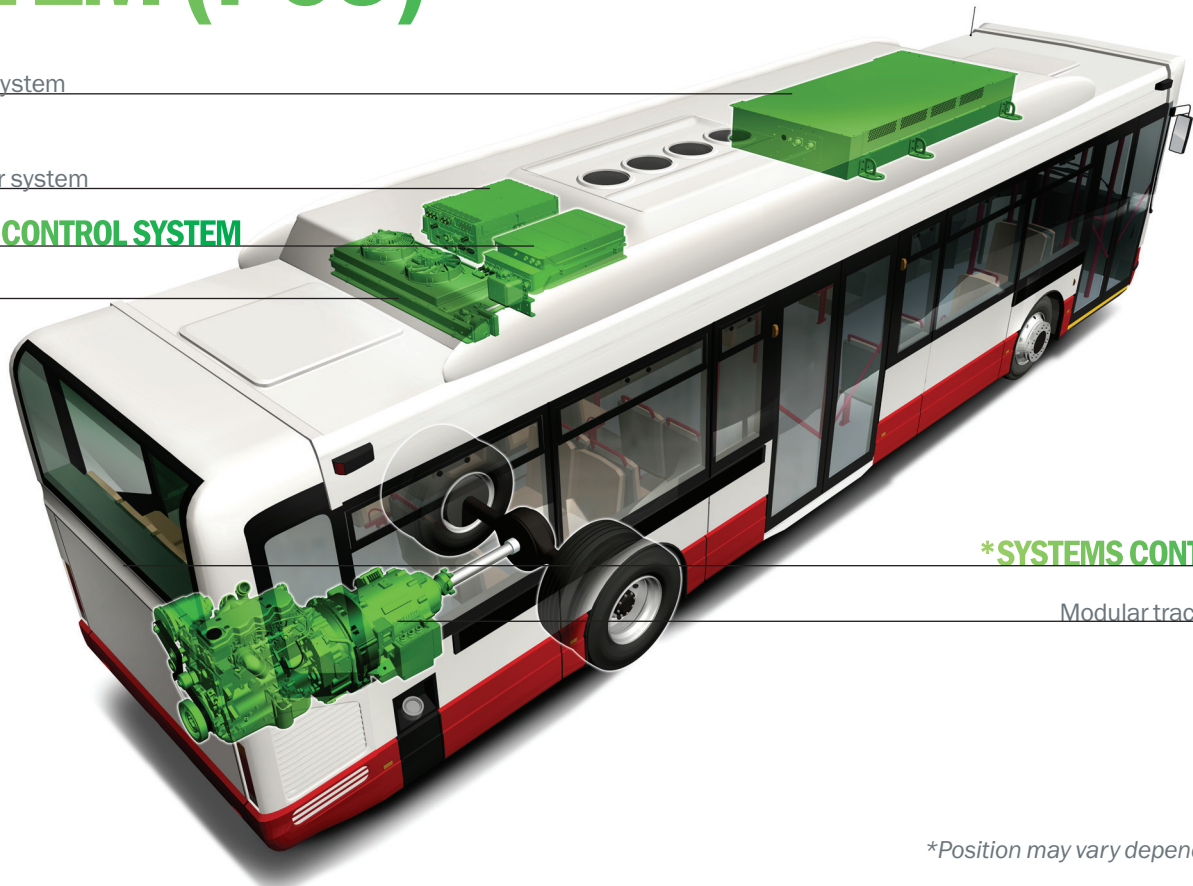
HYBRIDRIVE® PROPULSION CONTROL SYSTEM (PCS)

Energy storage system

Accessory power system

PROPULSION CONTROL SYSTEM

Cooling package

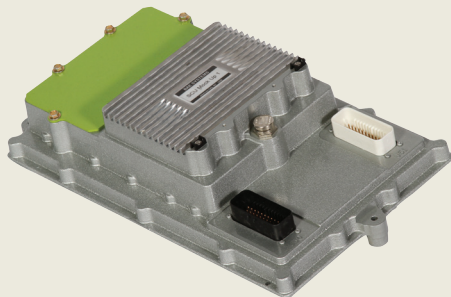


***SYSTEMS CONTROL UNIT**

Modular traction system

**Position may vary depending on OEM*

HYBRIDRIVE® SYSTEM CONTROL UNIT (SCU)



Ratings

- Operating temperature:
- External ambient: -40C to 52C
- Size (over chassis)
- Length: 15.15 in. (385mm)
- Width: 8.70 in. (221mm)
- Height: 3.91 in. (99 mm)
- Weight – 10lbs. (4.5 kg)
- Coolant – air cooled

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