

POWER CONTROL AND ACCESSORY SYSTEM (PCAS)

INTELLIGENT ELECTRIFICATION

It takes intelligent integration to run efficiently. Introducing the Meritor® Blue Horizon™ Power Control and Accessory System (PCAS). The PCAS is the brain of the entire ePowertrain system providing power where needed and control of necessary sub-systems. The PCAS also allows customization of performance to meet heavy-duty commercial vehicle application requirements for cab over, conventional truck and many other vehicle platforms.



**COMPREHENSIVE
PROVEN TECHNOLOGY**

**1.7 MILLION
REAL WORLD
TEST MILES
AND COUNTING**

PCAS FEATURES

ACCESSORIES AND POWER ELECTRONICS

- Brake air compressor [13.4 cfm]
- Power steering pump [16 lpm (medium-duty and heavy-duty on-highway); 26 lpm (heavy-duty refuse)]
- Onboard charger [22 kW, 11 kW, none*]
- DC-DC converter [4 kW]
- Accessory inverter
- Electric power take-off (ePTO) connector [200 kW]

THERMAL MANAGEMENT

- Cabin heating and cooling
- Battery heating and cooling
- Accessories cooling
- ePowertrain cooling

CONTROLS HARDWARE

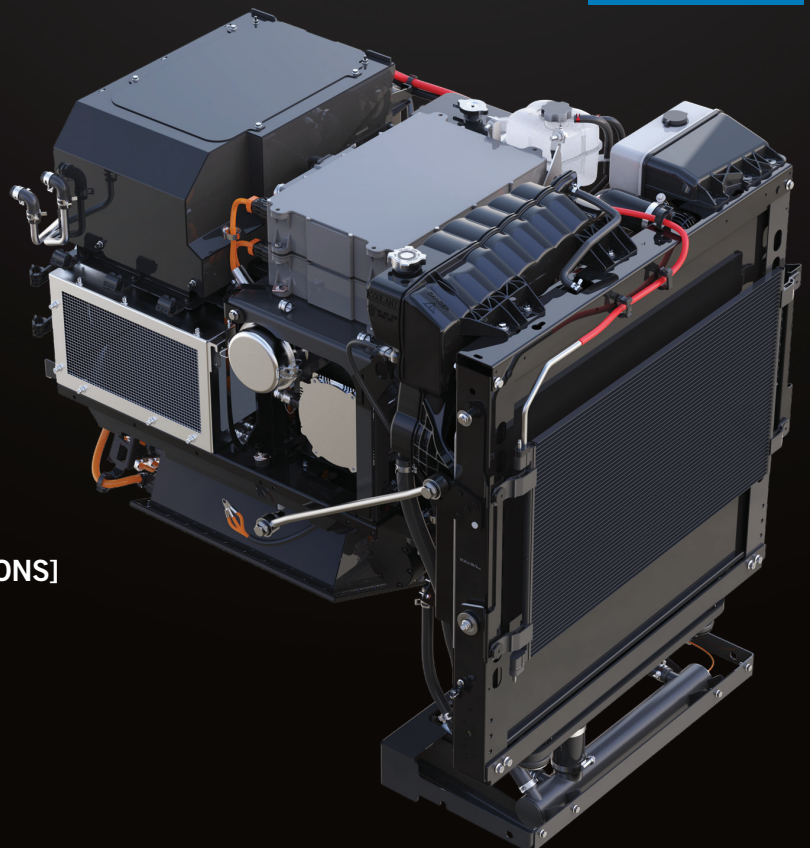
- High voltage power distribution unit
- Low voltage distribution system

CONTROLS SOFTWARE [67 INDIVIDUAL FUNCTIONS]

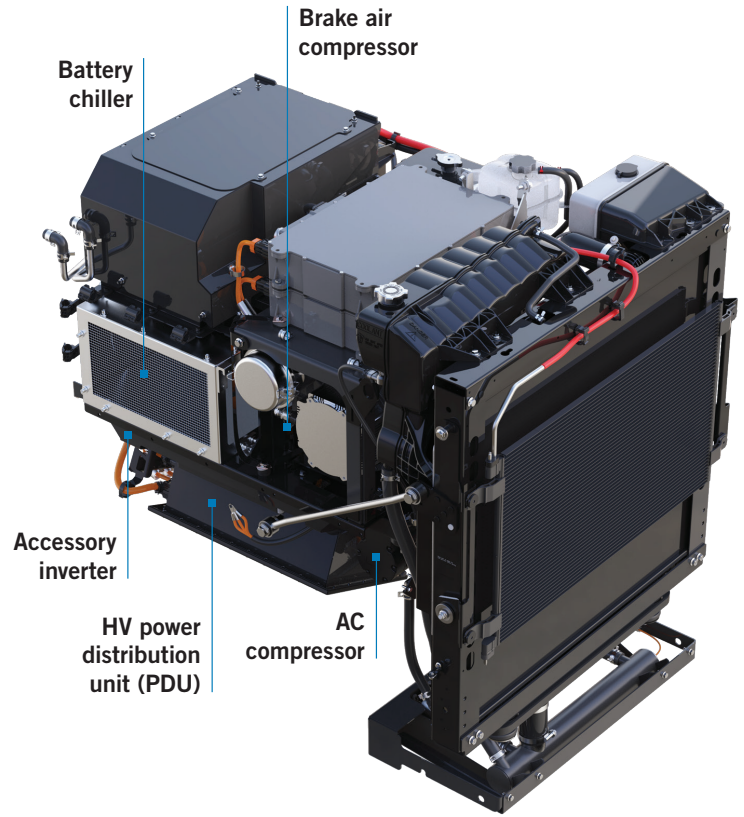
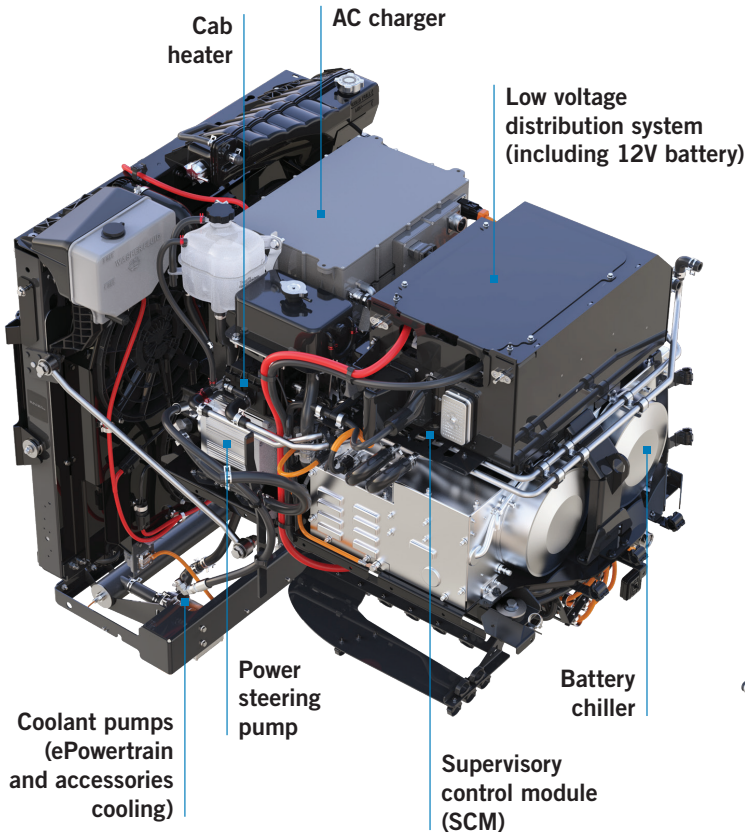
- Charging and torque path management
- Data interpretation for OEM interface
- HV and accessories battery maintenance mode
- On demand accessory performance management
- Unified diagnostic services (UDS) management

POWER ⚡
SOURCE AGNOSTIC

**10+ YEARS
IN DEVELOPMENT**



POWER CONTROL AND ACCESSORY SYSTEM (PCAS)



POWER CONTROL AND ACCESSORY SYSTEM (PCAS) SPECIFICATIONS

Operating Temperature	Weight	Protection Structure Ratings	Automotive Safety Integrity Level (ASIL)	Packaging Envelope	Nominal System High Voltage
-20°C to +48°C	Approximately 1,100 lbs.	IP 67 and IP 6K9K	ASIL C Compliant*	Approximately 1523 mm long x 890 mm wide x 1126 mm high	660V, 750V and 800V*

*Future release



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