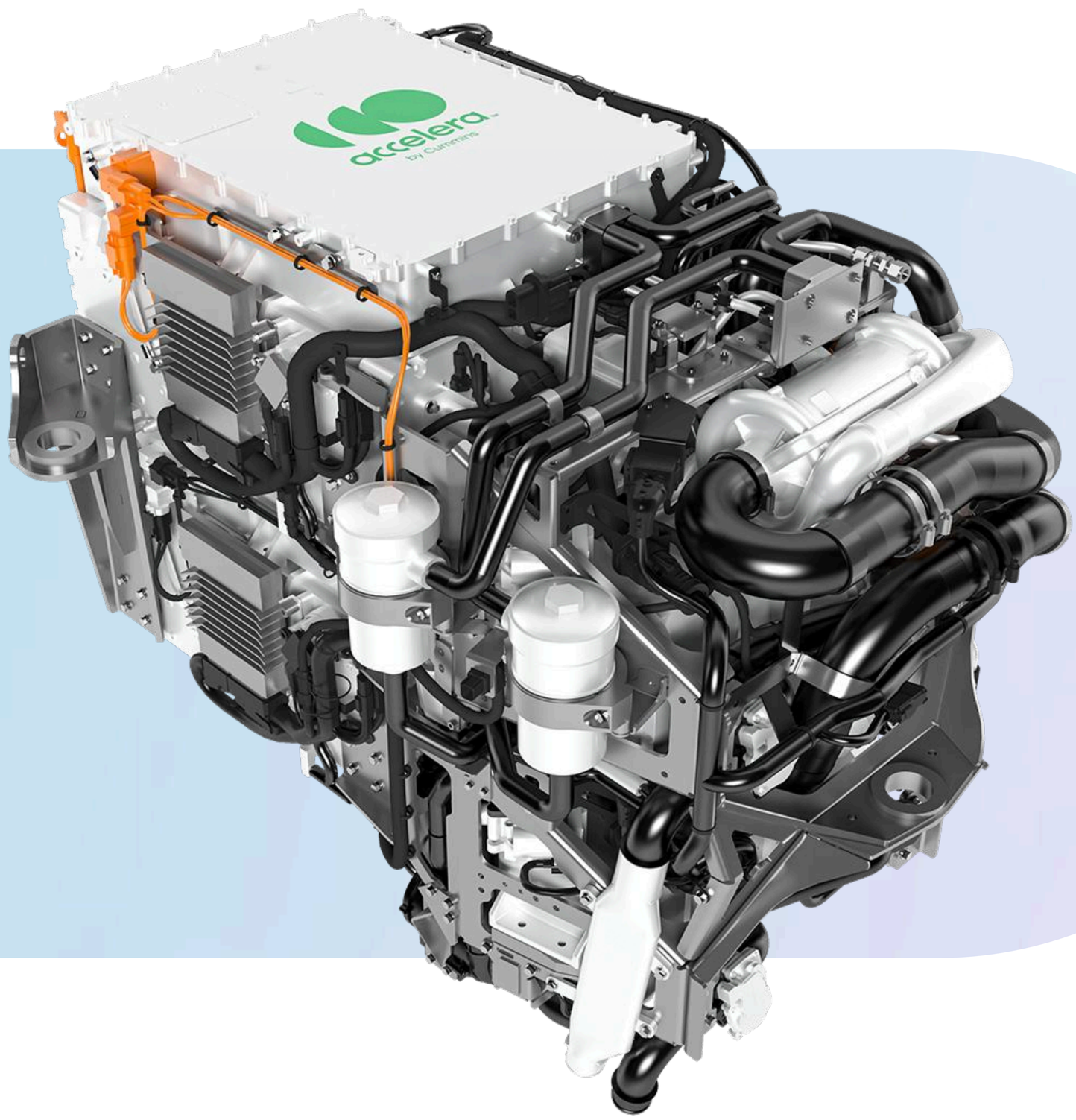
accelerate the shift™

Fuel Cell Engine

FCE300



Features

Advanced PEM stack technology

Fully integrated balance-of-plant, with DC/DC + TMS for ease of integration and improved efficiency

Progressive on-board controls + diagnostics

Variable pressure cathode air delivery

Externally humidified stack

Operation down to -30 degrees Celsius

Cummins Inc
Box 3005, Columbus, IN 47202-3005 U.S.A.
Bulletin 6385706 Produced in U.S.A. Rev 3/24

accelera™
by Cummins

Fuel Cell Engine

FCE300

Modular by design. More power.

Benefits

Accelera's advanced 4th Generation 300kW Fuel Cell engine is compact and purpose-built for **heavy-duty** on-highway applications - crafted with a focus on modularity, **easier integration**, and serviceability.

The FCE300 is composed of **two 150kW** units enabling its **versatile use** across multiple applications.

It provides **strong performance** and **high fuel efficiency** for demanding customer applications and extended duty cycles. An increase in stack operating temperatures enables **optimized cooling system layouts.**

*Durability is an estimate and will be influenced by how the Fuel Cell is used during application.

We are Accelera
And we're on a mission to transition the world's most economically critical industries to zero-emissions power.

Engine specifications

Power	300kW
Operating current	0 to 330 A_{DC} (each)
Operating voltage	450 to 850 V_{DC}
Peak efficiency	55%
Response time	30kW/s ramp up and 40kW/s down
Durability	Up to 20khrs*
Coolant	De-ionized water (DI H_2O) or ethylene glycol/DI H_20
Coolant temperature	62°C to 83°C continuous - 85°C max
Ambient temperature range without derate	-30°C to 45°C
Ambient temperature range for storage	-40°C to 85°C System has an automated freeze prep
Communication protocol	CAN J1939
Communication baud rate	250 and 500kps
Dimensions (LxWxH)	1342 x 789 x 955 mm includes DCDC+TMS
Mass	690kg includes DCDC+TMS
Volume (l)	1011 includes DCDC+TMS
Ingress protection	IP66 and IP67

Learn more at **accelerazero.com**