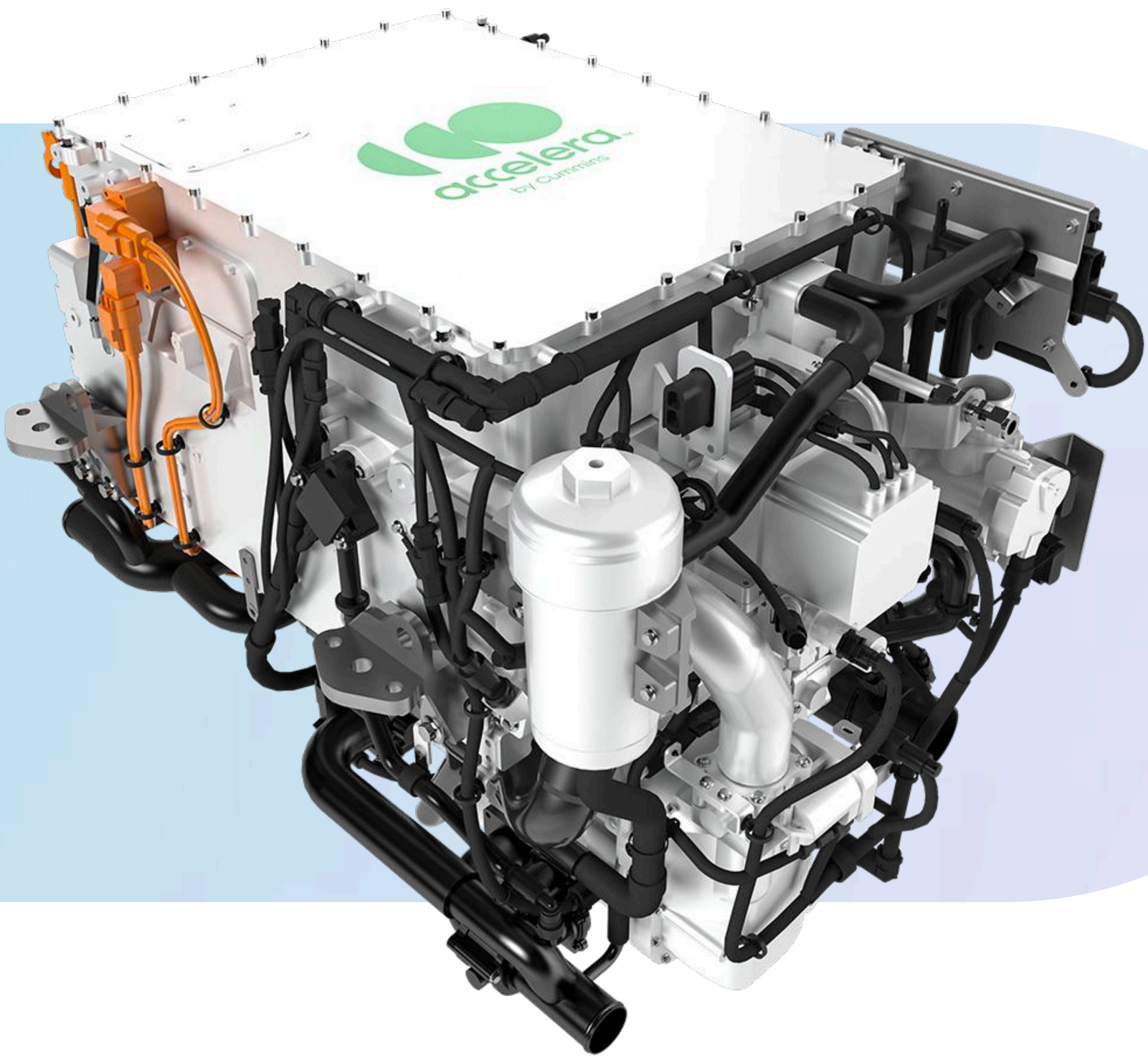
accelerate the shift™

Fuel Cell Engine

FCE150



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

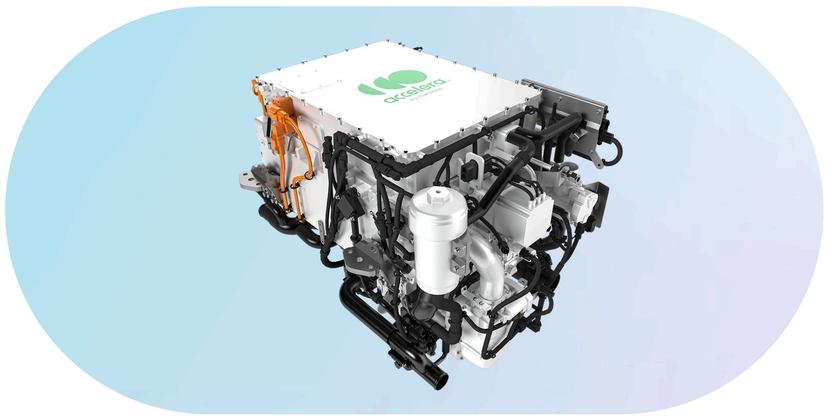
Cummins Inc
Box 3005, Columbus, IN 47202-3005 U.S.A.
Bulletin 6385706 Produced in U.S.A. Rev 3/24

accelera™
by Cummins

Fuel Cell Engine

FCE150

Modular by design. More power.



Benefits

Accelera's advanced 4th Generation 150kW fuel cell engine is purpose-built for on- and off-highway and stationary power applications. Crafted with a focus on modularity, seamless integration, and ease of servicing, it caters to the requirements of medium duty commercial vehicles and applications that require multiple units connected in parallel to meet the requirements of higher power use cases.

With innovative packaging efficiencies that result in higher power density, this variable-pressure system comes equipped with external humidification technology. This not only enhances performance across diverse environments, it facilitates an increase in stack operating temperatures, ultimately improving the overall efficiency of the end user application.

*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	Tall configuration	Flat configuration
Power	150 kW	150 kW
Operating current	0 to 330A DC (single)	0 to 330A DC (single)
Operating voltage	450 to 850 V_{DC}	450 to 850 V_{DC}
Peak efficiency[a]	55%	55%
Response time	15 kW/s ramp up and 20kW/s ramp down	15 kW/s ramp up and 20kW/s ramp down
Durability	Up to 20khrs*	Up to 20khrs*
Coolant	De-ionized water (DI H_2O) or ethylene glycol/DI H_20	De-ionized water (DI H_2O) or ethylene glycol/DI H_20
Coolant temperature	62°C to 83°C continuous - 85°C max	62°C to 83°C continuous - 85°C max
Ambient temperature range without derate	-30°C to 45°C	-30°C to 45°C
Ambient temperature range for storage	-40°C to 85°C System has an automated freeze prep	-40°C to 85°C System has an automated freeze prep
Communication protocol	CAN J1939	CAN J1939
Communication baud rate	250 and 500kbps	250 and 500kbps
Dimensions (LxWxH)	1041 x 789 x 969 mm includes DCDC + TMS	1326 x 935 x 625 mm includes DCDC + TMS
Mass	330kg	330kg
Volume (l)	571	551
Ingress protection	IP66 and IP67	IP66 and IP67

Learn more at **accelerazero.com**