

FCmove[®]-MD



Fuel Cell Power for Range Extender and Light Duty Applications

Ballard's FCmove[™]-MD is the next-generation hydrogen module for use in zero-emission, battery-dominant hybrid, light and mediumduty motive applications that is perfectly sized as a range extender for transit bus, light duty trucks and fleet vans. The FCmove[™]-MD offers a durable, compact and easy to install solution for system integrators and vehicle OEMs, backed by Ballard's proven experience, unmatched product performance, and service quality promise.

Features

High Performance

Robust PEM fuel cells deliver the power, range, and efficiency demanded by fleet operators.

Easy Integration

Integrated air and coolant sub-systems enable easy integration of the module into the vehicle, and provide easy access for enhanced serviceability.

High Temperature Operation

Permits a smaller cooling package for integration flexibility and generates HVAC heating, significantly improving overall vehicle fuel economy.

Climate Protection

IP-rated enclosure and freeze tolerant system guards against premature deterioration of key module components in extreme climates.

High Pressure System

Offers better performance, fuel efficiency and durability by preventing degradation of the fuel cell power module.

Remote Diagnostics

Direct or wireless connections allow customers to monitor performance data remotely, and anticipate preventative maintenance.

Proven Reliability & Durability

Demonstrated through exceptional fuel cell stack lifetime, with >25,000 hours of operation and 97% module power availability while in service.

System Integration Flexibility

Ballard collaboratively supports the integration of a variety of drive systems to optimize the power train and vehicle performance.

Zero-emission

PEM fuel cell power modules meet the mandates set by policy makers to reduce transportation emissions.

Humidification

Integrated humidification system is maintenance free and provides maximum system performance and durability through a wide range of environmental conditions.

Safety Features

Integrated safety system with ventilation air flow and H2 sensor built into the module to ensure highest safety and ease of installation.

Product Specifications*

Performance

45 kW
20 - 330 A
450 - 700 V
4.5 kW
1070 x 595 x 395
145 kg
IP67
-20°C - +50°C
-15°C
-40°C - +60°C
Gaseous hydrogen
As per SAE J2719, ISO 14687:2019 grade D
8 barg nominal
57%
Air
0% to 50% by volume, balance DI water
60°C nominal
Zero-emission

* Specifications are subject to change without notice

1. Operating system voltage with DCDC (optional supply). Operating system voltage without DCDC 140 - 280V

Here for life

Ballard Power Systems

9000 Glenlyon Parkway Burnaby, BC V5J 5J8 Canada

Ballard Power Systems

Majsmarken 1 DK-9500 Hobro Denmark

Contact us

marketing@ballard.com ballard.com