

**FCgen® – LCS**  
**Durable heavy duty fuel cell stack**

Ballard is continuously improving product durability and cost to make fuel cells the best alternative for zero emission heavy duty motive applications.

**Introducing FCgen® – LCS**

Ballard new heavy duty proton exchange membrane (PEM) fuel cell liquid cooled stack platform.

FCgen® – LCS incorporates our latest technology to enable:

- Higher current density operation
- Longer life
- Wider operating pressure window
- Higher operating temperature
- Robust freeze start capability

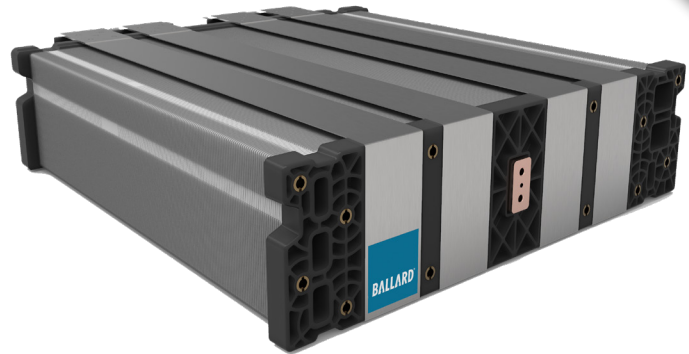
FCgen® – LCS stack uses Ballard proprietary heavy duty membrane electrode assembly (MEA) and low cost durable carbon plates to deliver performance and compelling total cost of ownership. Its end plates are designed with ports on both sides to increase packaging flexibility. The FCgen® – LCS stack provides stable electrical power over a wide range of operating and environmental conditions and is scalable from 2.3kW to 63.4kW.

Designed for heavy duty motive applications, the FCgen® – LCS features fast, dynamic response and robust and reliable operation.

The FCgen® – LCS establishes a new industry standard by optimizing cost, performance and product reliability and is part of Ballard’s new generation of heavy duty power modules.







Please contact us for product availability and pricing.

\* Value under Ballard specified conditions at the beginning of operation life, value differs for different length stack



**PRODUCT SPECIFICATIONS**

Max Power*	63.4 kW
Current at Max Power	360 A
Voltage at Max Power*	176 V
Mass (dry)*	38.5 kg
Length*	675 mm
Width	443 mm
Height	110 mm
Fuel	SAE J2719; ISO14687:2019/Grade D
Oxidant	Air up to 2.5 bara
Coolant	DI water or Fuel Cell grade glycol
Max Coolant Temperature	82°C
Minimum Start Temperature	-25°C

-  Power density designed for Heavy Duty requirements
-  Freeze start capability
-  Extended durability
-  Low product total cost of ownership
-  Packaging flexibility for easier integration
-  Refurbishing process re-uses plates & recycles catalyst