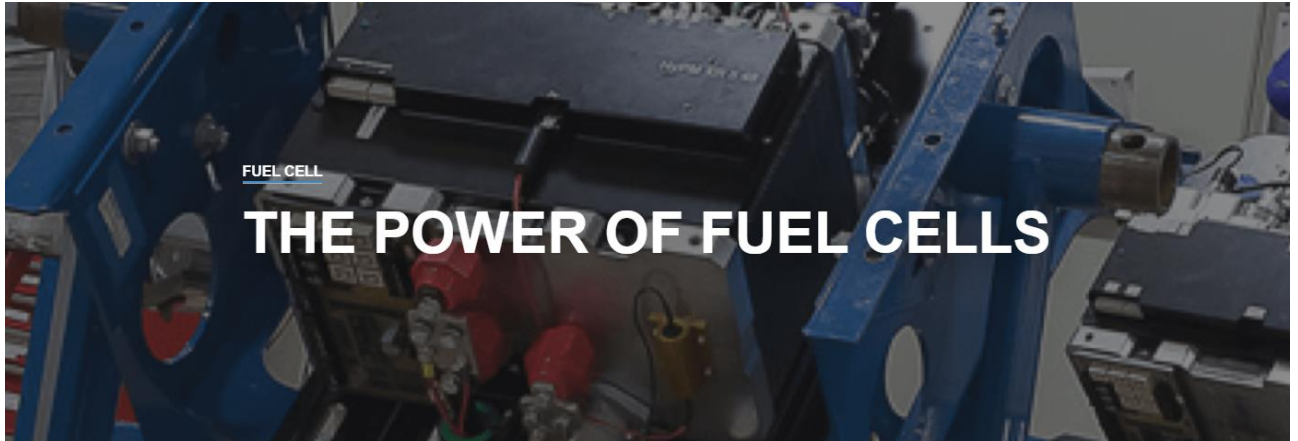




**NEW POWER**



**Cummins offers the most advanced hydrogen fuel cell technology, powering everything from mobility applications to backup generators. We're continuously assisting fuel cell programs around the world with equipment, testing and implementation, and systems integration. Our low-pressure, non-humidified cell power modules deliver unrivaled reliability, fuel efficiency, quiet operation, and easy maintenance.**

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## Mobility applications

With simple installation and power ranging from 30kW to 180kW, Cummins hydrogen fuel cells are powering vehicles around the world—from buses and trucks to trains and military transport. The technology ensures unrestricted starts and stops, integrated air delivery, advanced controls for optimizing performance, and zero emissions at point of use.













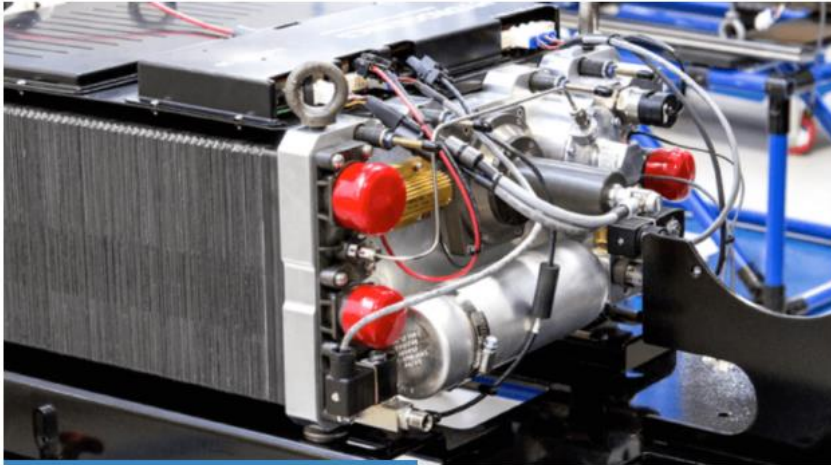
| TECHNICAL DATA                       | HD 8             | HD 10            | HD 15            | HD 30            | HD 45           | HD 90              | HIGH POWER CONFIGURATIONS                                      |
|--------------------------------------|------------------|------------------|------------------|------------------|-----------------|--------------------|--|
| Continuous Power (kW)                | 8.5              | 10.5             | 16.5             | 31               | 45              | 93                 |  |
| Dimensions (LxWxH) (mm)              | 379 x 406 x 261* | 408 x 406 x 261* | 494 x 406 x 261* | 719 x 406 x 261* | 848 x 406 x 255 | 1582 x 1085 x 346* |  |
| Volume (L)                           | 41*              | 44*              | 52*              | 76*              | 88*             | 594*               |  |
| Mass* (kg)                           | 52               | 47               | 55               | 72               | 95              | 360                | MULTIPLE HD30 OR HD45 UNITS CAN BE COMBINED FOR HIGHER OUTPUTS |
| Operating Current (A <sub>dc</sub> ) | 0...380          | 0...425          | 0...425          | 0 to 500         | 0 to 450        | 0 to 500           |  |
| Operating Voltage (V <sub>dc</sub> ) | 20...40          | 24...48          | 32...64          | 60...120         | 88...180        | 180...360          |  |
| Peak Efficiency* (% <sub>FCM</sub> ) | 51               | 53               | 53               | 59*              | 59*             | 59*                |  |

Available in lightweight, higher voltage and aerospace configurations

## Tried, tested, and proven

Cummins liquid-cooled advanced proton exchange membrane (PEM) stacks offer industry-leading features like:

-  **Integral balance of plant**
-  **Unrestricted start-stop cycling**
-  **Advanced onboard controls and diagnostics**
-  **Robust, rugged, and reliable**
-  **Low-pressure cathode air delivery**
-  **No water required (for humidification)**
-  **-40°C subzero shutdown capability**
-  **No nitrogen-purge requirement**
-  **Rapid start-up and dynamic response**
-  **Designed for ease of UL and CE system certifications**



## Made for easy integration

These additional inside-the-box features help reduce challenges for integrators:

- Air delivery subsystems
- Integrated hydrogen regulation
- Anti-flood/dry protection

## Options that make a difference



Overall system controller



Busbar/contactor kit



Thermal management subsystem



Fluid heating for single-unit configurations

## Power supply and backup power

Whether you need continuous, on-demand, or standby power, our hydrogen fuel cell technology delivers uninterrupted power supply (UPS), with excellent uptime when other sources like wind and solar are unavailable.



For megawatt power generation, our Power Plant Platform offers the most reliable and cost-effective solution compared to battery-only systems for baseload, cyclic generation, and peak power applications.



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