

Power Module

HyPm-HD45

accelerate the shift™



Features



Liquid-cooled advanced MEA PEM stack

Sub-zero operation

No water for humidification required

Integral balance of plant

Rapid start-up and dynamic response

No nitrogen required for shutdown

Advanced onboard controls and diagnostics

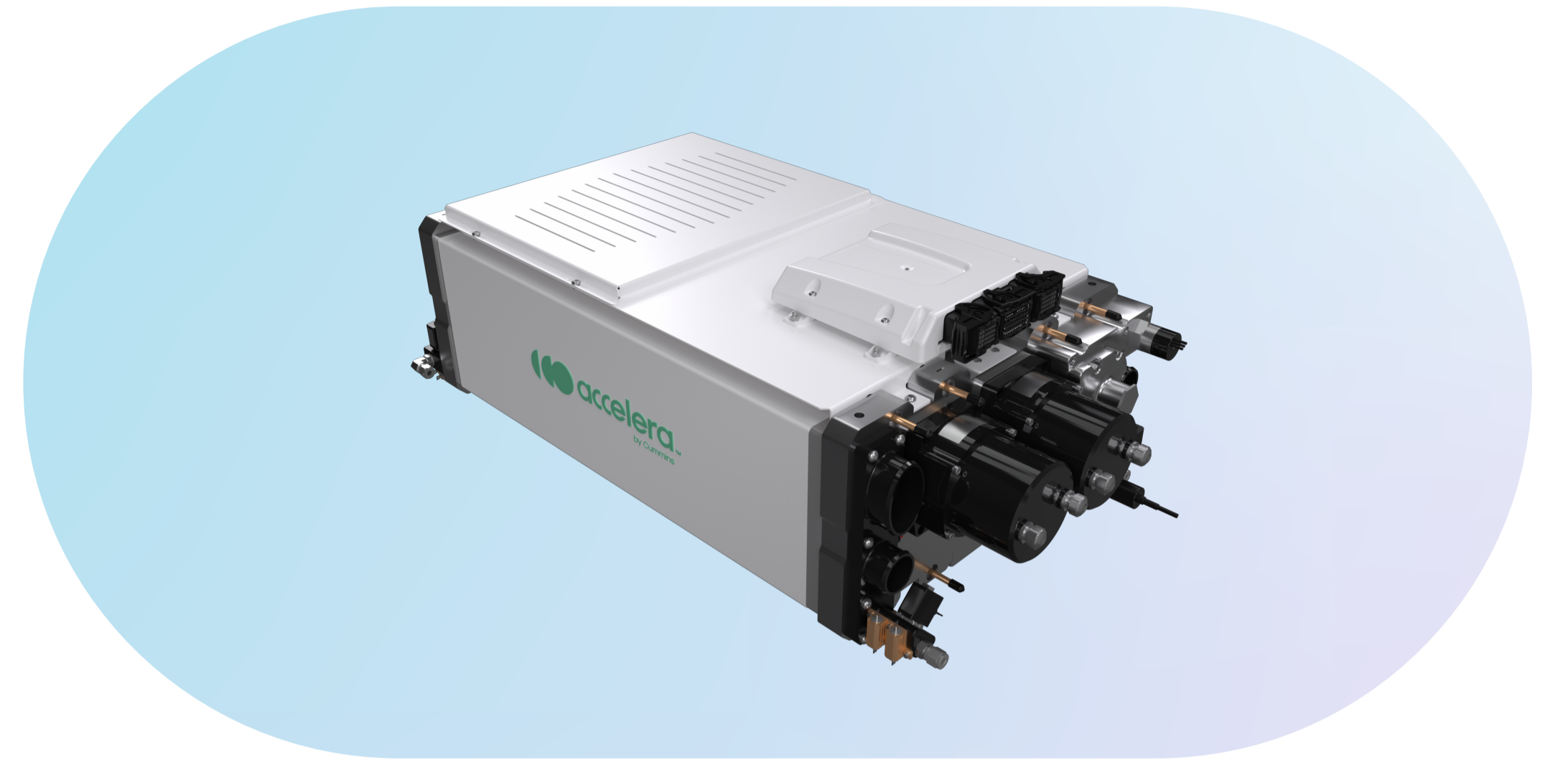
Unlimited start-stop cycling

Designed for ease of UL and CE system

Low pressure cathode air delivery

Robust, rugged and reliable

Industry-leading Efficiency



Benefits



HyPM-HD45 incorporates Accelera's proprietary PEM stack technology, using high durability components designed for demanding conditions. Its compact form makes HyPM-HD45 the right fit for space constrained applications.

Every HyPM-HD45 delivers industry-leading efficiency in a low pressure and compact design. It is highly durable and scalable to meet your vehicle requirements.

Our turnkey system includes simple electrical and mechanical interfaces that allow for easy integration with other powertrain components.

Power Module Specifications

Power	45 kW
Operating Current	0 to 450 A _{DC}
Operating Voltage	88 to 180 V _{DC}
Peak Efficiency ^a	60%
Response Time from Off to Rated Power	≤ 30 seconds
Response Time from Minimum to Rated Power	≤ 5 seconds
Response Time from Rated to Minimum Power	≤ 1 second
Oxidant	Ambient Air
Coolant	De-ionized water (DI H ₂ O) or 50% ethylene glycol/DI H ₂ O
Ambient Temperature Range for Storage	-40°C to 65°C
Process Air Temperature Range for Operation	-10°C to 46°C
Communication Interface	CAN v2.0A (standard 11 bit)
Dimensions (LxWxH)	848 x 406 x 255 mm ^a
Mass (includes air blower)	95 kg
Volume	88 L

We are Accelera

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

Learn more at [accelerazero.com](https://www.accelerazero.com)