

HyPM™ HD180

Heavy Duty Fuel Cell Power Module

- Liquid-cooled advanced MEA PEM stack
- Integral Balance of Plant
- Advanced onboard controls and diagnostics
- Comes with low pressure cathode air delivery
- -46°C sub-zero shutdown capability



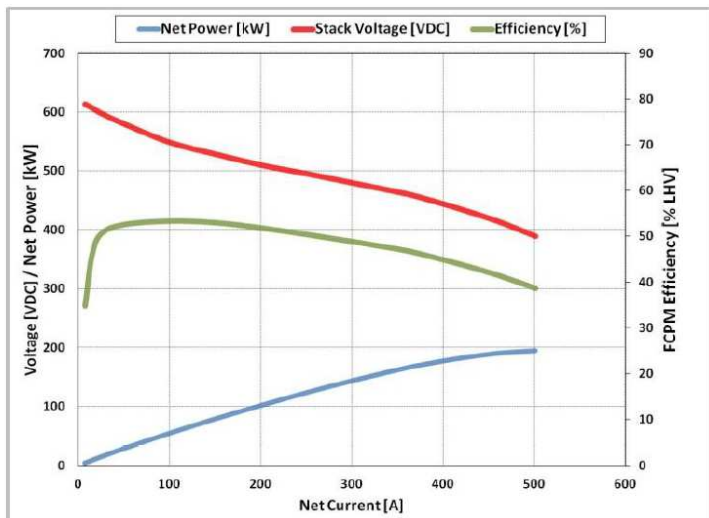
Technical Data	
Rated Electrical Power	99 kW continuous
Operating Current	0 to 500 ADC
Operating Voltage	360 to 720 VDC
Peak Efficiency	55% *
Response	<5s from off to idle <3s from idle rated power
Fuel	Hydrogen >99.98%
Oxidant	Ambient Air
Coolant	De-ionized water(DI H ₂ O) or 60% ethylene glycol/DI H ₂ O
Ambient Temperature	-10 to +55°C operating -40 to +65°C storage (<2°C with automated freeze shutdown feature)
Communication	CAN v2.0A (standard 11 bit)

*Efficiency based on LHV of H₂,25°C,101.3kPa,including onboard parasitic load,excluding radiator fan and water pump

- Rapid start-up and dynamic response
- Unlimited start-stop cycling
- Robust, rugged and reliable
- No water for humidification required
- No nitrogen required for shutdown

Physical	
Dimensions L x W x H *	955 x 1525 x 690 mm
Mass *	654 kg
Volume	1005 L

* Excluding air delivery and optional water pump
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HyPM™ HD30 Typical Performance

Actual delivered product may differ in appearance.
Specifications subject to change without prior notification.



<https://www.cummins.com>

Includes

- Air delivery unit (low pressure blower)
- Integration and operation manual
- Product Warranty

Optional

- Coolant pump
- Thermal management kit
- Diagnostics software
- Power electronics components

Applications

- Urban transit buses
- Heavy duty commercial fleet vehicles
- Marine
- Aerospace