

# **HYDROTEC POWER CUBE**

# **POWER WITH ZERO-TAILPIPE EMISSIONS**

Hydrogen fuel cells are a key component of GM's electrification strategy which extends beyond battery-powered passenger vehicles. Fuel cells combine hydrogen and oxygen to generate electricity through an electrochemical reaction. The fuel cell enables the conversion of energy stored in hydrogen into DC electrical power for electric vehicle or supplemental power use. Each HYDROTEC power cube contains 300-plus hydrogen fuel cells along with thermal and power management systems. The power cubes are compact and easy to package and can be used in a wide range of applications, including marine, earth-moving and mining equipment, locomotives and power generators.





# HYDROTEC POWER CUBE HIGHLIGHTS

POWER - Provides up to 77 kilowatts of efficient and quiet power.
CLEAN - A zero-tailpipe emissions alternative to diesel engines.
FLEXIBLE - Fits into a wide range of applications, including class 8 trucks, stationary and mobile power generation units, boats, aircraft, locomotive, and other applications.

**EASY TO PACKAGE** - Compact package allows for more flexible integration solutions.

**SERVICEABILITY** - Access panels allow for ease of serviceability and can help reduce downtime.

#### **Additional Features**

- Can be arrayed in multiple units to achieve higher power ratings
- Over 300 precisely crafted fuel cells and supporting components, all designed to boost performance, efficiency, safety and help ease of integration
- Meets automotive and commercial safety standards, with multiple detection features
- Easy access air, fuel, and cooling connections for integration
- UL / IEC certification (pending)

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## HYDROTEC POWER CUBE SPECIFICATIONS

#### Performance

Net peak system power Voltage Current

#### Physical

Mass 258kg Operating temperature Storage temperature Environmental pressure Dimensions LxWxH

## 77 kW 486 - 803 VDC (nominal) 158 A max (continuous)

Gaseous hydrogen

810 - 1100 kPa

-22° F (-30° C) to 140° F (60° C) (start and run) -40° F(-40° C) to 140° F (60° C) 62 – 106 kPa 44 in x 24.8 in x 25.9 in 1,116 mm x 630 mm x 659 mm

#### Hydrogen Supply

Fuel type Pressure Temperature

## **Coolant and Reactor**

Pressure (high- and low-temperature)100 – 200 kPa-gLow-temperature coolant typeEG/DI water solutionHigh-temperature coolant typeProprietary solution

## Controls

Control interface

CAN interface, J1939, 500 kbps

-40° F (-40° C) to 185° F (85° C)





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