CATALYTIC GENERATOR - PRODUCT INFORMATION

KEY FEATURES

- Zero CO_2 emissions capable
- Fuel flexible
- Compact
- Lightweight
- Cost effective
- Future-proof

OVERVIEW

Our Catalytic Generator, known as the 'Cat Gen', is a 35kW Zero CO_2 emissions capable, compact, and lightweight generator suitable for multiple sectors.

Coupling the Cat Gen with a battery enables running at an optimised speed and load, with the ability to control the reaction process extremely accurately, minimising the emissions to negligible levels without expensive after-treatment.

BENEFITS

The Catalytic Generator achieves a great power density thanks to its low mass and volume. Moreover, it has been designed with simplicity in mind using only a single moving part, leading to low maintenance.

One of the biggest advantages of the Cat Gen is that it is fuel flexible. This key capability future-proofs the device and safeguards the technology and its place in the industry as a solution for the foreseeable future across multiple markets.

APPLICATIONS

35kW is the best size to showcase this technology for most markets as our units can fit in some of the smallest vehicles, such as city cars and are light enough to fit into weight critical applications such as marine vessels and aircraft. We can also pair up our generators for use in larger vehicles that require more power.

The Catalytic Generator accelerates the electrification process by enabling battery technology to be implemented into applications that have not been feasible until now.

ADDITIONAL FEATURES:

- Generates 35kW continuous electrical power
- Ultra-low emissions on gasoline with no after-treatment
- Zero emission capable on hydrogen
- Works on any liquid and gaseous fuels
- Lightweight: ~50kg for core hardware
- Works on a wide range of DC voltages
- Optimised efficiency
- Low maintenance
- Simple integration
- Flexible positioning: location and orientation
- Design suitable for high-volume manufacturing
- Inexpensive
- Uses widespread materials and minimises the use of exotic materials

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