



US Hybrid



Medium Duty Permanent Magnet Motor/Generator “HPM450”

PRODUCT OVERVIEW:

The HPM450 is a permanent magnet motor designed for medium duty electric and hybrid vehicles and mobile generator applications. High torque and power density with excellent energy efficiency. When used in conjunction with our Integrated Power Unit it can be operated over a wide dynamic range. It can operate in either torque or speed control mode with full control of DC current, power and operating voltage. The system offers extensive J1939 CAN compliance and RS232 diagnostics. It can be used as a hybrid drive motor or generator with command and control via CAN/J1939.

FEATURES:

- Input voltage: 250 - 450Vdc or 550 - 700Vdc
- High Torque/power Density,
- Efficiency: 96% Motor, 98% Controller.
- CAN command, control and diagnostics.
- Output voltage can be regulated via CAN/Analog command.
- Vector controlled Torque or Speed Command.
- Motoring and Generation Capability



APPLICATIONS:

Electric and Fuel Cell Vehicles drive or APU and Stationary Power Systems.

Motor Type	Permanent magnet
Torque (Max)	450Nm
Power (Max)	120kW
Speed (Max)	4500 rpm
Weight	65 kg
Input Voltage	Med V: 250Vdc-450Vdc High V: 450Vdc-700Vdc
Cooling	Liquid cooling, 60C
Shaft	SAE / Custom
Efficiency	Motor > 96%
Isolation resistance	> 1 MΩ at 700Vdc

