

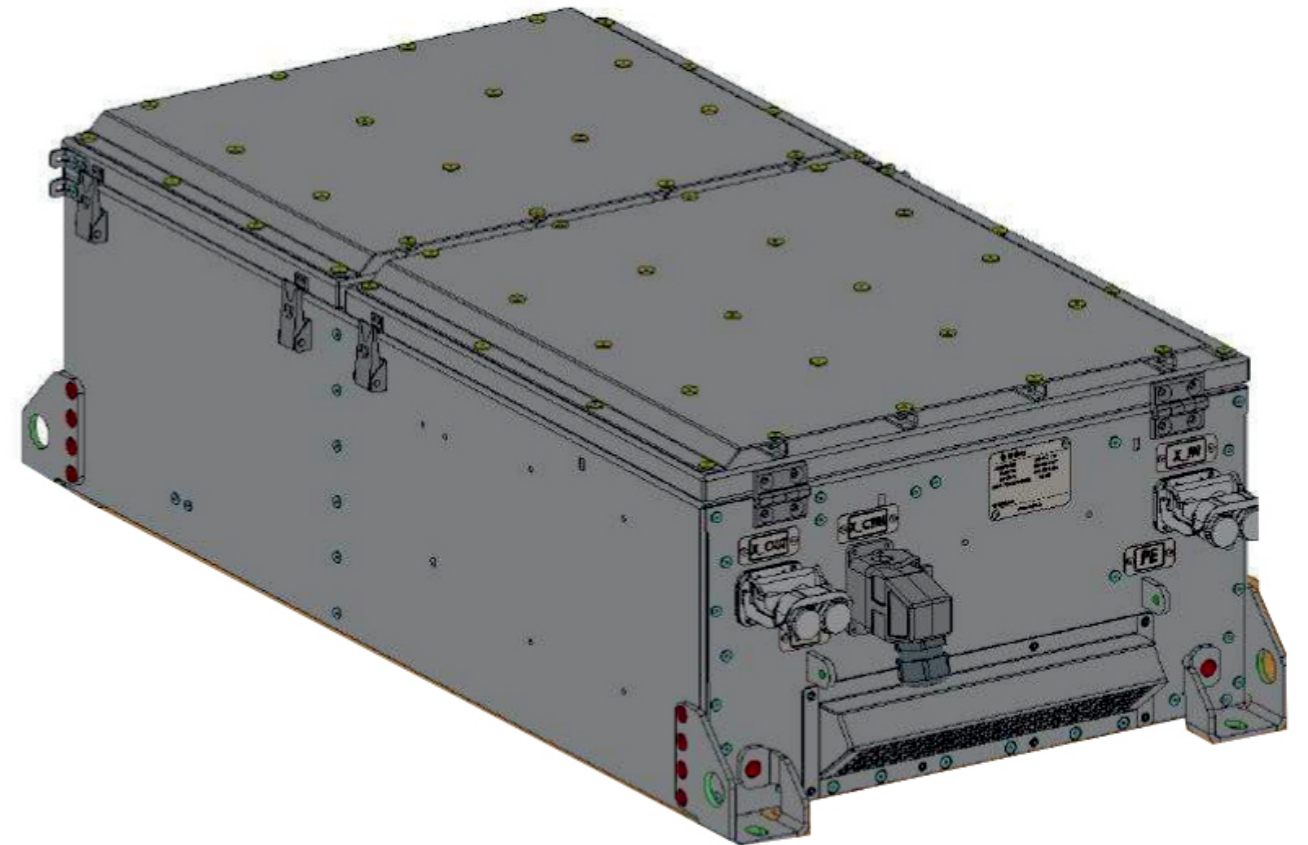
ENI-PH2/70.1 Hydrogen cell converter

APPLICATION



The ENI-PH2/70.1 converter is designed to convert electric energy from a hydrogen cell and power electric bus devices with it (in particular charging a buffer traction battery). The converter at its output has the ability to generate DC voltage from 500 to 750 V_{DC}. The ENI-PH2/70.1 converter is powered via the X_IN connection. The input voltage is filtered, and then, through a capacitor and chokes, it is fed to the key system. The keys supply the converted voltage to the output rails. This voltage is supplied to the X_OUT terminal via a capacitor and an output filter as well as a pre-charge system.

The converter is equipped with input and output voltage measurement, output current measurement and choke temperature measurement. It has the option of external CAN communication (X_CONTROL connector) allowing for control of the operation, remote diagnostics and monitoring of the device's operating parameters. The X_CONTROL connector is also used to provide an external 24 V voltage to power the control circuits.



SPECIFICATION

TYPE	ENI-PH2/70.1
Rated input voltage	250 - 500 V _{DC}
The maximum current drawn from the cell	240 A
Rated output voltage	500 - 750 V _{DC}
Rated power	70 kW
Efficiency	95%
User interface	CAN 2.0 A, CanOpen protocol
Pollution degree	PD4 according with EN-50124-1
Overvoltage category	OV3 according with EN-50124-1
Cooling	Air forced
Noise	70 dB
Working position	Horizontal
Enclosure protection rating	Clean zone IP65, contaminated zone IP21 - according with EN-60529
Working temperature	-20°C ÷ +40°C
Storage temperature	-25°C ÷ +40°C