HYDROGEN FUEL CELL

DESCRIPTION

The generators are based on proton exchange membrane (PEM) technology, which makes power generation efficient and environmentally friendly. The fuel used is pure hydrogen: by generating electricity, hydrogen and oxygen molecules combine and form a harmless by-product known as H2O or water.

Easy to use with a smart and compact design, the cells give you energy independance even on small and medium-sized motor and sailing boats. This unit will allow you to charge all your electrical systems, depending on the output and battery backup size. Create your first micro-smart grid by combining it with batteries, solar panels or wind turbines. In addition with the generators, we are offering a complete gas management system. Type 4 cylinders are quickly becoming the standard for hydrogen usage as they are extremely durable and lightweight. Together with our quick connect system, filling or exchanging bottles has never been simpler. Type 4 cylinders come in various sizes from 2 – g liters (water volume) and will fit in most compartments.

TECHNICAL SPECIFICATIONS CELL GENERATOR - UP200

Nominal power output: 200 W

Nominal output voltage: 12 V DC

Current @ 24 V: 17 A

Fuel: Gaseous hydrogen (≥ 99.95%)

Fuel consumption @ 1000 W: 2.8 NL/min

Operating tempareture: -5°C to 40°C

Dimensions (LxWxH): 525x153x256 mm

Weight: 8 kg

TECHNICAL SPECIFICATIONS CELL GENERATOR - UP400

Nominal power output: 400 W

Nominal output voltage: 12 V DC

Current @ 24 V: 34 A

Fuel: Gaseous hydrogen (≥ 99.95%)

Fuel consumption @ 1000 W: 5.2 NL/min

Operating tempareture: -5°C to 40°C

Dimensions (LxWxH): 590x200x390 mm

Weight: 10 kg

TECHNICAL SPECIFICATIONS CELL GENERATOR - UP1K

Nominal power output: 1000W

Nominal output voltage: 24 V DC

Current @ 24 V: 41.7 A

Fuel: Gaseous hydrogen (≥ 99.95%)

Fuel consumption @ 1000 W: 13 NI/min

Operating tempareture: -5°C to 40°C

Dimensions (LxWxH): 700x222x410 mm

Weight: 25 kg

TECHNICAL SPECIFICATIONS HYDROGEN CYLINDERS	2.0 LITERS	3.0 LITERS	6.0 LITERS
Working pressure:	300 bar	300 bar	300 bar
Water capacity:	2.0 l	3.0 l	6.o l
Empty weight:	1.61±0.09 kg	1.91±0.09 kg	3.33±0.19 kg
Gas:	Gaseous hydrogen (≥ 99.95%)	Gaseous hydrogen (≥ 99.95%)	Gaseous hydrogen (≥ 99.95%)
Operating tempareture:	-40°C to 60°C	-40°C to 60°C	-40°C to 60°C
Dimensions:	369±5 × 107±3 mm	440±5 X 116 mm	481±2 X 159±2 mm
	6.8 LITERS	7.2 LITERS	9.0 LITERS
Working pressure:		,	-
Working pressure: Water capacity:	LITERS	LITERS	LITERS
0,1	LITERS 300 bar	LITERS 300 bar	LITERS 300 bar
Water capacity:	Soo bar	LITERS 300 bar 7.2 l	LITERS 300 bar 9.0 l
Water capacity: Empty weight:	LITERS 300 bar 6.8 l 3.54±0.23 kg Gaseous hydrogen	300 bar 7.2 l 3.75±0.24 kg Gaseous hydrogen	300 bar 9.0 l 4.80±0.24 kg Gaseous hydrogen





