

Low noise and zero emission hydrogen-powered generator set



General

To answer the need of clean energy, H2SYS developed a complete range of generators producing electricity safely and silently without carbon emission.

The hydrogen-powered generator sets designed and manufactured by H2SYS are equipped with a hydrogen fuel cell. The fuel cell is integrated into a high performance hybrid system, developed by our team of engineers.

The BOXHY® range is the first mobile fuel cell generator matching electric of 5kW needs

Specific options are available such as forkliftable frame.

Features

Instant start - up

Compact design

High safety features

No maintenance

Noiseless

Zero emissions

Applications



Off-grid installations



Telecom



Events



Construction

PERFORMANCES

Fuel Cell	3000 W
Full power (W) – Boost Mode	5000 W
Boost mode duration time	> 30 min
Boost mode duration time (battery only - power 3 kW)	< 30 min
Output voltage	230 VAC - 50 hz
Plug current	2 x 16 A + 1 x 32 A
Size (L x W x H)	1000 x 650 x 765 mm
Weight	150 kg

HYDROGEN

H2 specification	Minimum quality grade 3,5 (99,95%)
H2 inlet pressure with external H2 tank	5 - 9 bar

OPERATION

Fuel cell technology	Aircooled PEM fuel cell
Noise (dB) 5 meters	Boost mode < 50 dB / Silent mode < 20 dB
Type of DC/AC inverter	Pure Sinus inverter
Hydrogen consumption	< 68 g / kWh
Operating ambient T°C range	+ 5°C to + 40°C
IP protection	IP 23

CERTIFICATION

Designed under CE directives and
specific market norms

Machine – 2006/42/CE
Low voltage – BT 2014/35/UE
EMC – 2014/30/UE
Portable Fuel Cell Systems – EN 62282-3-100:2020



More information?

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