

H₂Genset – the mobile, emission-free generator

Preliminary datasheet H₂Genset 1st Generation



H₂Genset

The H₂Genset is a flexible and mobile hydrogen-powered generator for areas without access to the conventional power grid, e.g. on construction sites, at outdoor events, for temporary power supply of telecommunication masts or as mobile emergency power supply in case of major emergencies.

It can also be optionally configured as a mobile uninterruptable power supply system - without the need for foundations or building permits.

www.h2-genset.com/

1st Generation	H ₂ Genset 20-10/0	H ₂ Genset 20-10/4	H ₂ Genset 20-10/7
Nominal power, AC power output ¹		10 kW ¹	
Peak power output (depending on state of charge of battery)		20 kW	
Overload power (max. 15 sec)		25 kW	
Output voltage		230 / 400 V AC, 50 Hz	
Fuel		Hydrogen 3.0 or better (according to specification sheet)	
Pressure level external tanks (bundle connection)	300 bar		300 bar
Pressure level internal tanks	-		700 bar
Number of integrated tanks (H ₂ storage capacity)	-	4 (8,4 kg at 700 bar)	7 (14,6 kg at 700 bar)
Integrated EFOY Hydrogen fuel cell modules		4	
H ₂ consumption		ca. 0,06 kg / kWh _{el}	
Nominal operating time (at nominal power output)	-	ca. 14 h	ca. 24 h
Energy capacity of internal tanks	-	139 kWh _{el}	243 kWh _{el}
Integrated battery capacity		300 Ah bei 48 V DC	
Operating temperature ²		-10 °C bis +50 °C	
Storage temperature ³		-20 °C bis +60 °C	
Remote monitoring (Cloud-platform)		✓	
CE-certified		✓	
Dimensions (L x W x H) ⁴		ca. 2.100 x 1.600 x 1.450 mm	
Weight ⁴	ca. 1.250 kg	ca. 1.450 kg	ca. 1.600 kg

¹ Currently guaranteed nominal output power 8.5 kW AC, 10 kW AC planned from mid-2024 on, in each case at supply air temperatures < 30°C / 86°F.

² Based on the temperature of the system components.

³ Ideal storage at temperatures between +3°C to +30°C.

⁴ Values excluding trailer and Accessories. Trailer weight 480 kg.

All technical data at test conditions of 20 °C / 68 °F
Subject to modifications and errors
Valid from 07.07.2023