

H₂Genset – the mobile, emission-free generator

Datasheet H₂Genset



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/

| | H ₂ Genset 28-10/0 | H ₂ Genset 28-10/4 | H ₂ Genset 28-10/7 |
|---|-------------------------------|--|-------------------------------|
| Nominal power ¹ | | 10 kW ¹ | |
| Peak power output (depending on state of charge of battery) | | 28 kW | |
| Overload power (max. 15 sec) | | 35 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) | | max. 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 (AGM technology) | |
| 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. 1,400 kg | ca. 1,600 kg | ca. 1,750 kg |

¹ guaranteed nominal output power of the fuel cells DC for 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 04.04.2024