

Energy System **Solutions**

12 KW FORKLIFT MODULE

100 KW GENSET

1 MW POWER GENERATOR







Energy System Solutions

Our energy system products

- Complete hybridized energy systems including fuel cell modules, batteries and power conversion
- Power from several kW to multiple MW
- Application fields in UPS, data centers, Gensets and mobility
- Reliable energy systems based on our proprietary fuel cell and battery technology







Reliable

Efficient

Sustainable

12 kW forklift module

- Thermal management and hydrogen storage incl.
- · Low temperature start-up time below 5 min
- Refueling in 3 min (at 350 bar)
- · Operating time of more than 4.5 h
- · Lifetime of more than 25,000 h



2,5-t forklift

Rated power 12 kW Peak power 15 kW

Dimensions & weight 1025 x 710 x 880 mm³

at 460 kg

Operating temperature* -20 °C to 45 °C
Output voltage 48 V to 80 V

H₂ storage pressure 350 bar

Available hydrogen 1.2 kg (allows 18 kWh_a)

100 kW Genset

- PEM fuel cell modules: VISTAH 130
- Power conversion at 400 V / 50 Hz (3 phases)
- · Communication interface via LAN/CAN
- Variable hydrogen supply depending on availability (bottled H₂, composite storage, pipe supply etc.)
- Lifetime of more than 20,000 h



VISTAH 130 (FC module used)

Rated power 100 kW
Peak power 110 kW
Protection grade IP55

Dimensions & weight 1900 x 1340 x 2000 mm³

at 2,7 t

Operational temperature* -20 °C to 45 °C

1 MW PEMFC Power Generator

- Heat dissipation via top-side radiators
- PEM fuel cell modules: VISTAH 200/250
- Battery banks from 120 to 240 kWh
- Power conversion to 400 V at 50 Hz (3 phases)
- Safety and fire prevention and suppression systems incl.
- · Lifetime of more than 20,000 h



VISTAH 200 (FC module used)

Rated power 1000 kW
Peak power 1100 kW
Protection grade IP55

Dimensions & weight 11620 x 2665 x 3215 mm³

at 20 t

Acoustic emissions \leq 75 dB Start-up time \leq 30 s

Operational temperature * -20 °C to 45 °C

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