



Hydrogen Energy System G1 1.5 kW -4.5 kW modular

English

Data Sheet

GENERAL SPECIFICATIONS

Dimensions (HxLxW) with Chimney	2800 x 1120 x 1050 mm
Maximum Weight (3FCM)	580 Kg
Noise level	Max. 70,3 dB
Max tilt angle	5°
Starting time	< 1minute
Shut down time	< 2 minutes

SPECIFICATIONS OF USE

Storage ambient temperature	-20°C / +45°C
Operation ambient temperature	-20°C / +45°C
Start up ambient temperature	-10°C / +45°C
Protection	IP55
Operation max. altitude (at full power)	2 000 mètres

ELECTRIC SPECIFICATIONS

Out up nominal voltages	48 VDC and 230 VAC
Possible voltage range on DC power BUS	44-56VDC
Stationary nominal power DC	4500 W
Stationary nominal power AC	4000W
Transient Power AC	4400W
Duration max. @ 4400 kW AC	1h @ 4400W
Autonomy on batteries	20 min@4000W AC – 55 min@2750W AC

GAS SPECIFICATIONS

Hydrogen

Inlet connector	Staubli RME-06
Nominal operating pressure	4-10 bar
Max. flow rate (pic)	120 NL/min

Air

Air quality	Filter G4 (particles and chemicals)
Flow rate	Max. 180 NL/min per FCM

EFFLUENTS

Liquid

Water produced	Max. 1,09 g/s for 3 FCM
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Thermal

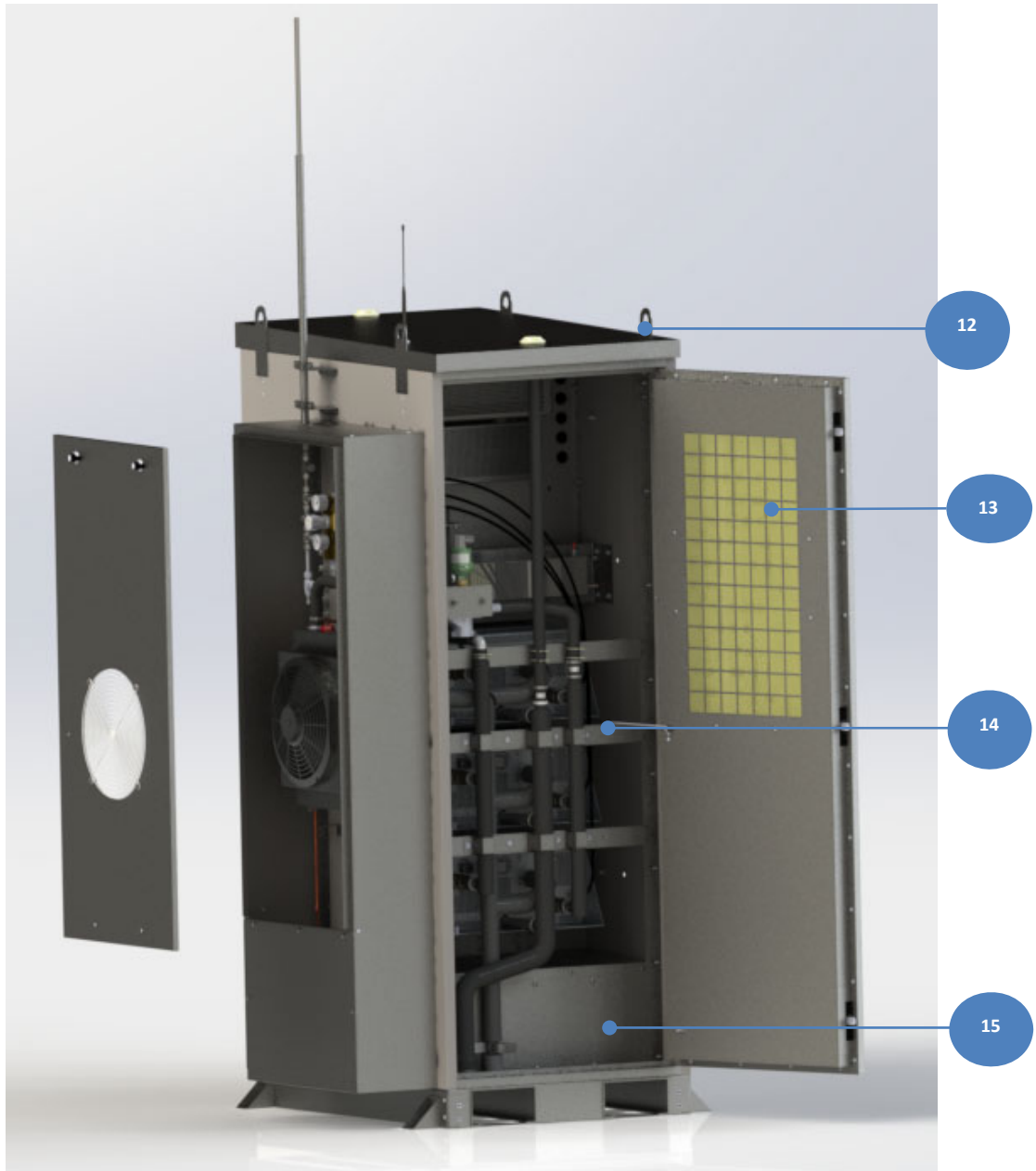
Thermal Power	Max. 3 kW par FCM
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HyES G1 48VDC/230VAC - 4.5 kW



HyES G1 and main elements (1)

Index	Description
1	DC/AC Inverter
2	HMI HyES (start, shut down, fault reset button)
3	Electric panel
4	Fuel Cell Module G1 1500W (FCM G1)
5	Air filter G4 (inlet)
6	Battery pack 48V – 115 Ah
7	Chimney for H2 purge
8	H2 gas module MP/BP (pressure reduction, purge and safety valves)
9	Emergency stop button
10	Liquid cooling heat exchanger
11	Liquid cooling drain
12	Lifting rings
13	Air filter G4 (Outlet)
14	Fluid pipings (air, H2, liquid cooling)
15	Battery pack



HyES G1 and main elements (2)



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