

A range of powerful, low noise and zero emission hydrogen-powered generator sets



General

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 engineers team.

The THYTAN[®] generator sets range delivers a power of up to 200 kVA. These generators can meet important energy needs on isolated sites, or construction sites not connected to the electrical grid.

Used as a back-up solution, this range can compensate for power outages and ensure continuous operation.

The THYTAN[®] range is composed of 2 gensets: the THYTAN[®] 50 (kVA) and the THYTAN[®] 130 (kVA).

Features

- Instant Start -up
- Remote supervision
- Flexible connection
- Continuity of service
- Modularity (paralleling)
- Reduce maintenance
- Autonomy and power

Customers application



Sites not connected to
the electrical grid



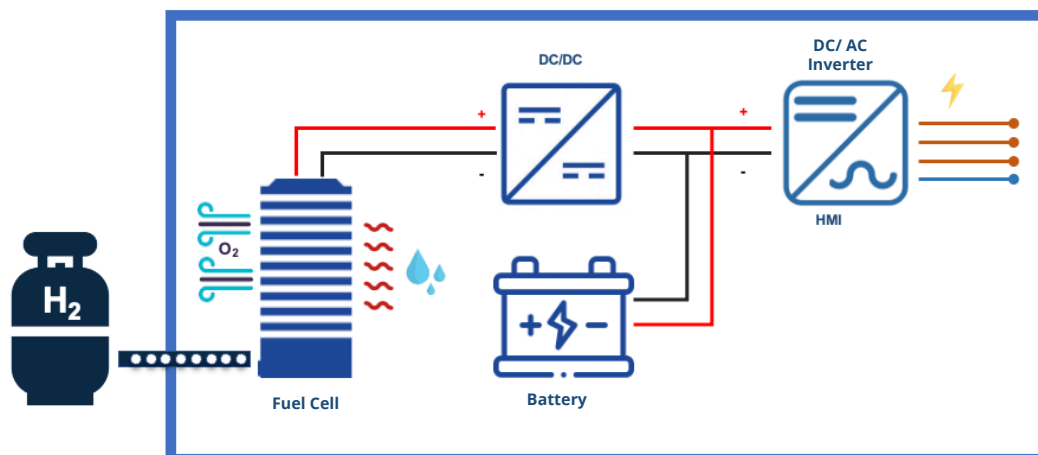
Backup solutions
for power outages

Technical datas

PERFORMANCES				
THYTAN	THYTAN 50		THYTAN 130	
	cos phi = 1	cos phi = 0,8	cos phi = 1	cos phi = 0,8
Prime running power (PRP)	25 kW	30 kVA	80 kW	100 kVA
Emergency Stand-by Power (ESP) 1h	40 kW	50 kVA	105 kW	130 kVA
Peak power 5s	100 kVA		200 kVA	
Paralleling	Yes			
Service continuity	Yes, double H2 adduction			
Starting	Instantaneous			
Lifespan	20 000 hours		15 000 hours	
TECHNICAL CHARACTERISTICS				
Fuel cell type (PEM)	Ballard		Hyundai	
Output voltage	230 /400 VAC - 50/60 Hz			
Type of sockets	Single-phase and three phase sockets Powerlock Optional feature : Direct Bus bar connection			
Neutral system *	TT			
Ingriss protection	IP43			
Operating temperature	From -5 to +45° C			
Handling lifting	4 lifting eyes, Possible to handle with forklift			
Dimensions (Lx W x H)	2500 x 1100 x 1800		2800 x 1100 x 2600	
COMPLIANCE				
CE standards				

* Other neutral system is available on request

Schematic



More informations?



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FT101-V2.1-082021-ENTHYTAN