

MobHyl Power® M30



«zero emission» GENERATOR

QUIET
NON POLLUTING
ROBUST

30
kW
HYDROGEN POWERED



PowiDian offers the latest **true alternative** to diesel generators.

Using a fuel cell already developed for mobile applications, **a safe and proven technology**, **MobHyl Power®** meets the challenging needs of **energy transition** and new environmental regulations.

Respectful of environment and people



ADVANTAGES AND PERFORMANCE

MobHyl Power® offers you:



H2 fuel
Supply:
B50 bottles (200 bars)



No-polluting solution



Quiet production
respecting work
environment



Instantaneous start-up



Reduced maintenance

- ✓ 30 kW power with no pollutant emissions
- ✓ silent operation
- ✓ reduced maintenance
- ✓ robustness and over 25,000 hours lifespan
- ✓ instantaneous start for every use
- ✓ extended autonomy with SAGES® smart management system
- ✓ easy-to-use operation thanks to an ergonomic and intuitive interface locally or remotely



SPÉCIFICATIONS

Performances

Output power ⁽¹⁾	Prime Power (PRP) Emergency Standby Power (ESP) 2h @ 125 % 4 mn @ 150 % 10 sec @ 180 %	Cos Phi = 1	Cos Phi = 0.8
		25.5 kW 31 kW 38 kW 47 kW	30 kVA 30 kVA 37 kVA 46 kVA
Peak power		53 kVA during 0.3 sec.	
THD		THD(I) <2.6 % / THD(V) <2.3 %	
No-load and low-load operation		Compliant, no minimal operating load	
Start-up		Instantaneous	
Output voltage		230 / 400 V - 50 Hz	
Neutral system		TT	
Primary energy		Hydrogene - industrial quality in 200 bars gas bottles	
Autonomy (for 8 x B50 bottles)		3h30 @ 100 % PRP 8h @ 50 % PRP 17h @ 25 % PRP	
Service continuity		Yes. Double infeed hydrogen gas line for bottle changeover in operation	

Environment

IP level	IP43 - (for outside works)
Operational temperature	2 to 45°C (-15 à 45° C optional)
Storage temperature	-20 to 50°C
	Freeze Protection Included - 230 V waterlight P17 socket (for outdoor storage)
Humidity	≤ 95 %
Altitude	≤ 1000 m
Waste	Water (vapor or liquid)

Users connection ⁽²⁾

Single-phase socket 16 A, IP 67, NFC 61314 type	2
Single-phase socket 16 A, IP 67, IEC 60309-1 type	1
Three-phase socket 32 A, IP 67, IEC 60309-1 type	1

Mechanical features

Weight	2 400 kg
Dimensions (Length x Width x Height)	2 700 x 1 650 x 1 500 mm
Lifting and handling	4 lifting eyes, ISO corners, possible to handle with forklift

Controls and user interfaces

Main controller	Master Controller PowiDian
User interface	Control buttons on operating panel Display and detailed menus on touch screen Local screen on controller Local and distant supervision
Distant access	GSM 3G/4G antenna included Wifi interface and local RJ45 Ethernet plug for surveillance and diagnostic

Main components

Fuel cell	Maximum power Lifespan Number of start/stops	Ballard MD-30 30 kW > 20 000 working hours Unlimited
Cooling		Semi-closed circuit with liquid/air heat exchanger Coolant type: deionised water & glycol mix
Lithium Ion batteries		Lithium Iron Phosphate technology (LFP) Total energy : 20.48 kWh
Conversion system		SIEMENS - Double stage DC/DC and DC/AC Output isolating transformer
Auxiliary supply		24 Vdc - 2 x 12 Ah batteries for blackstart (charger included)

Certifications

Marking	CE
CEM / Emission	EN61000-6-3 compliant (residential, commercial and light-industrial environments)
CEM / Immunity	EN61000-6-2 compliant (industrial environments)
Machine safety standard	NF EN 60204-1 compliant

¹ Depends on environmental conditions. Fuel cell started.

² Direct Bus bar connection available on request.



Isolated sites



Events



Sport events



Construction sites



Airports, ports...



Intervention groups



Hospital emergency power, cold chain...