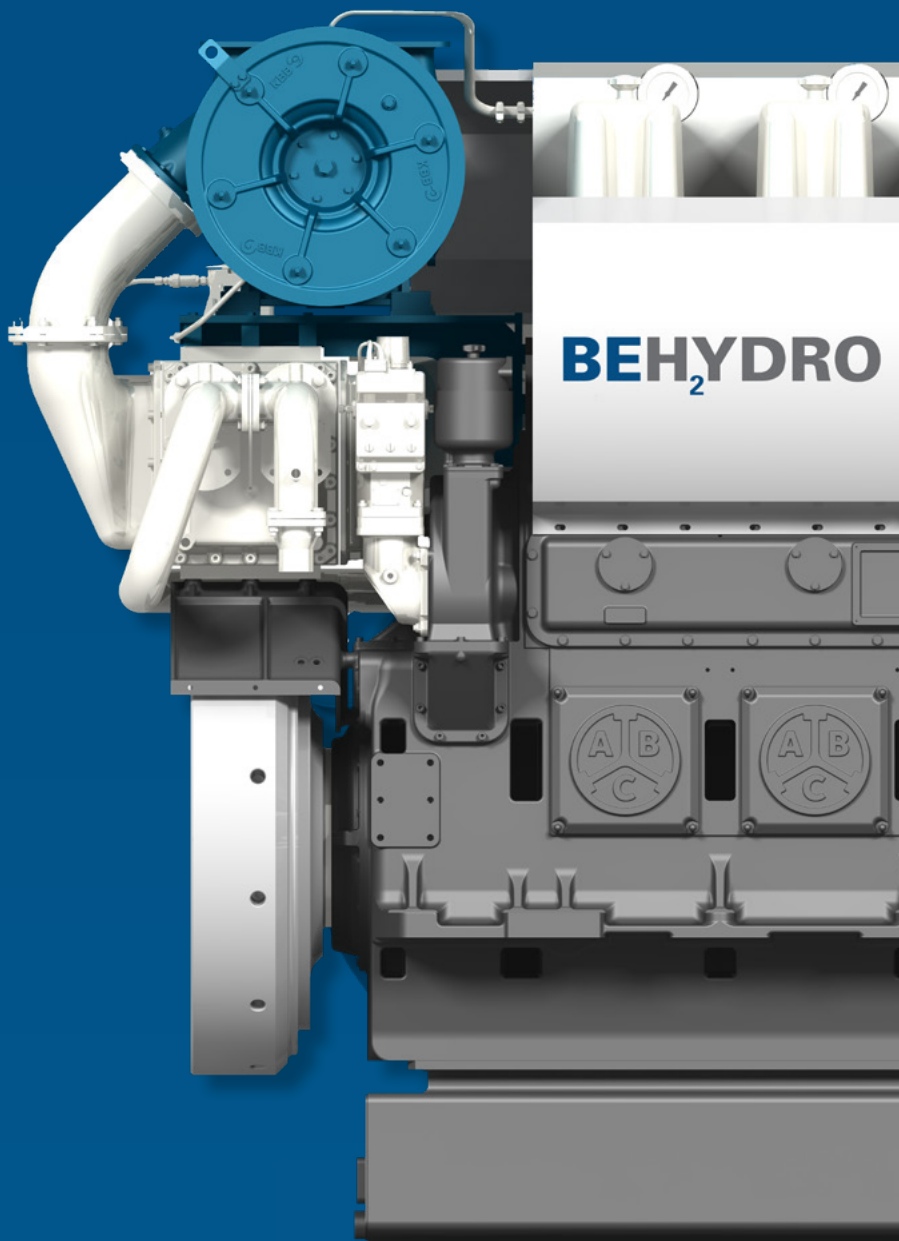


# BEHYDRO<sub>2</sub>

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DATASHEET



## ENGINE TYPE

DZD H<sub>2</sub>

POWERED BY  
HYDROGEN

## Datasheet engines type DZD H<sub>2</sub>

Operational circumstances based on ISO-conditions (ISO 3046-I).

BEH<sub>2</sub>YDRO reserves the right to alter the technical data without prior notice.

### Definition

- DZD H<sub>2</sub>:** Medium-speed dual-fuel H<sub>2</sub> engine
- » Turbocharged & intercooled
  - » Available in Anti-clock and Clock rotation
  - » Built for multiple fuel execution

### Basic data

Cycle	4-stroke
Cylinders	Inline 6 or 8 cylinders ; 12 or 16 cylinders in V
Bore	256 mm
Stroke	310 mm
Swept volume	6 cylinders: 95,71l - 12 cylinders: 191,5l 8 cylinders: 127,6l - 16 cylinders: 255,2l
Injection	Direct fuel injection (diesel) / Port injection (hydrogen)
Brake mean effective pressure	12,5
Piston speed	10,3

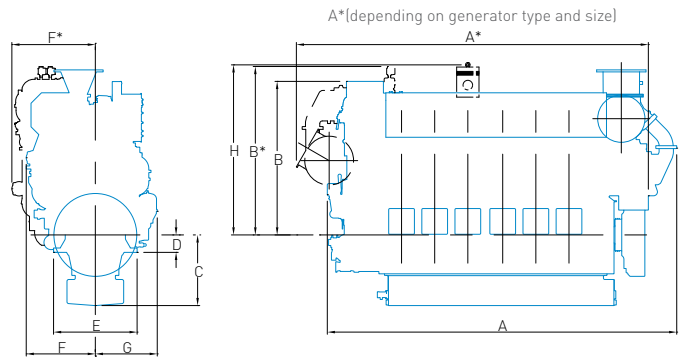
### Power

Engine type	rpm	Engine power (ISO 3046 - I)  kW	Nominal power of gensets DZD H <sub>2</sub>			
			50 Hz electric - 3 phase		60 Hz electric - 3 phase	
			P <sub>w</sub> (kW)	P <sub>n</sub> (kVA)	P <sub>w</sub> (kW)	P <sub>n</sub> (kVA)
6 DZD H <sub>2</sub>	900	900	---	---	855	1069
	1000	1000	950	1188	---	---
8 DZD H <sub>2</sub>	900	1200	---	---	1140	1425
	1000	1335	1268	1585	---	---
12 DZD H <sub>2</sub>	900	1800	---	---	1710	2138
	1000	2000	1900	2375	---	---
16 DZD H <sub>2</sub>	900	2400	---	---	2280	2850
	1000	2670	2537	3171	---	---

**Conversion factors used:** Generator efficiency:  $\eta_g = 0,95 \rightarrow$  Power factor:  $\cos \varphi = 0,8$

**Possible fuels:** diesel, marine diesel oil (MDO), gasoil (GO), dual fuel (diesel + hydrogen), biofuel, vegetable oil - fuel cell grade is possible or less purified H<sub>2</sub>

## 6/8DZD H<sub>2</sub> engine

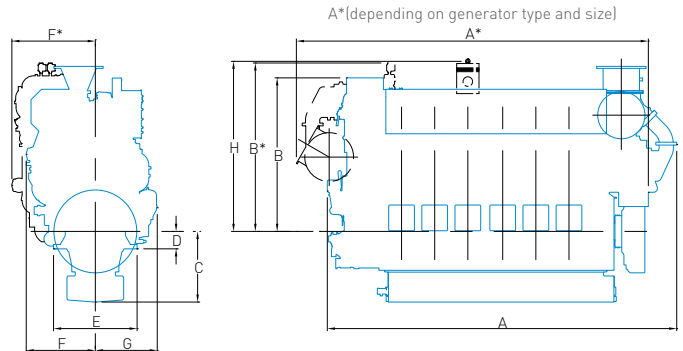


	A (mm)	A* (mm)	B (mm)	C (mm)	C* (mm)	D (mm)	E (mm)	F (mm)	G (mm)	G* (mm)	H (mm)	I (mm)	Dry mass** (kg)	
<b>6DZD H<sub>2</sub></b>	4007	4036	2771	1761	1931	508/650	710/810	200	958	826	1070	924	1950	10720
<b>8DZD H<sub>2</sub></b>	4767	4796	3531	1761	1931	508/650	710/810	200	958	826	1070	924	1950	14005

\* Turbochargers at free end side

\*\* Flywheel, vibration damper and coolers are included

## 6/8DZD H<sub>2</sub> genset

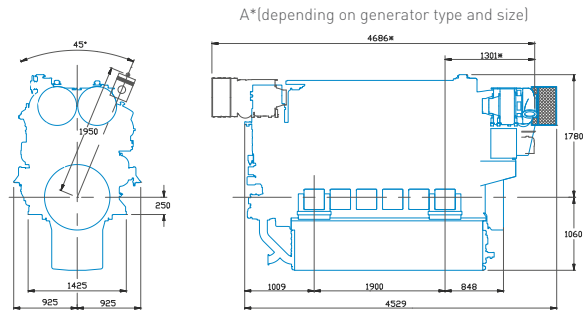


	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	E* (mm)	F (mm)	G (mm)	Dry mass** (kg)
<b>6DZD H<sub>2</sub></b>	6037	6406	1931	1276	1535	826	1070	924	1950	22200
<b>8DZD H<sub>2</sub></b>	6959	7328	1931	1276	1535	826	1070	924	1950	26600

\* Turbochargers at free end side

\*\* Flywheel, vibration damper and coolers are included

## 12/16DZD H<sub>2</sub> engine

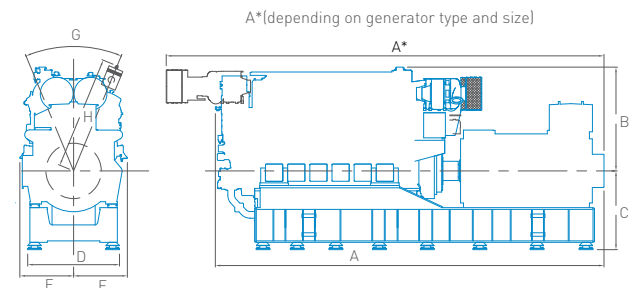


	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (°)	J (mm)	Dry mass** (kg)
<b>12DZD H<sub>2</sub></b>	4896	5053	1900	1780	1060	250	1425	925	925	45	1950	18200
<b>16DZD H<sub>2</sub></b>	5656	5813	2660	1780	1060	250	1425	925	925	45	1950	21950

\* Turbochargers at free end side

\*\* Flywheel, vibration damper and coolers are included

## 12/16DZD H<sub>2</sub> genset



\* Turbochargers at free end side

\*\* Flywheel, vibration damper and coolers are included

	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (°)	H (mm)	Dry mass** (kg)
<b>12DZD H<sub>2</sub></b>	6667	7510	1780	1351	1575	925	925	45	1950	33700
<b>16DZD H<sub>2</sub></b>	7847	8690	1780	1351	1575	925	925	45	1950	43400

## CONTACT US



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