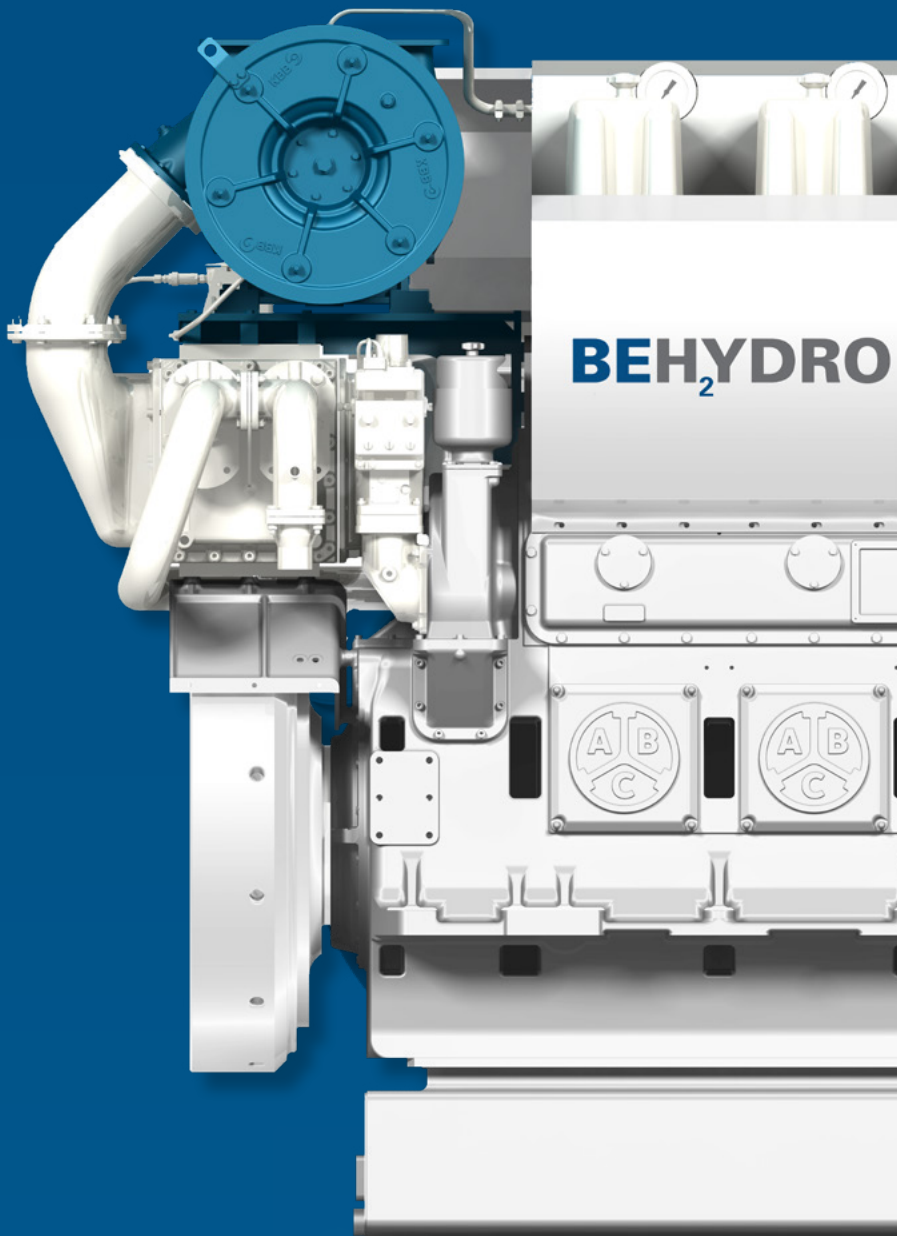


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DATASHEET



ENGINE TYPE

DZ H₂

**ZERO EMISSION
POWERED BY
HYDROGEN**

Datasheet engines type DZ H₂

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

BEH₂YDRO reserves the right to alter the technical data without prior notice.

Definition

- DZ H₂**: medium-speed DZ H₂ spark-ignition 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	Port injection
Brake mean effective pressure	12,5
Piston speed	10,3

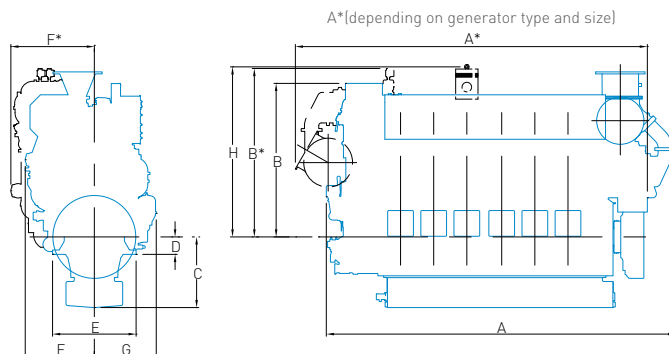
Power

Engine type	rpm	Engine power (ISO 3046 - I)	Nominal power of gensets DZ H ₂			
		kW	50 Hz electric - 3 phase		60 Hz electric - 3 phase	
			P _w (kW)	P _n (kVA)	P _w (kW)	P _n (kVA)
6 DZ H ₂	900	900	---	---	855	1069
	1000	1000	950	1188	---	---
8 DZ H ₂	900	1200	---	---	1140	1425
	1000	1335	1268	1585	---	---
12 DZ H ₂	900	1800	---	---	1710	2138
	1000	2000	1900	2375	---	---
16 DZ H ₂	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: Hydrogen (less purified hydrogen on request)

6/8DZ H₂ engine

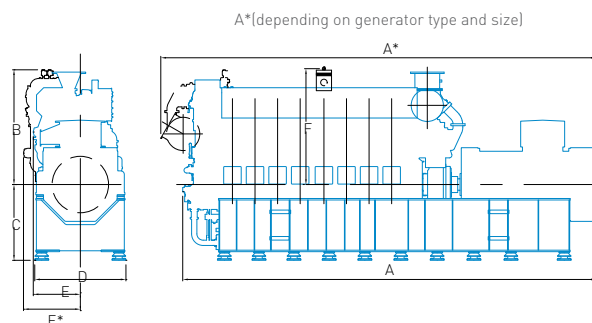


	A (mm)	A* (mm)	B (mm)	C (mm)	C* (mm)	D (mm)		E (mm)	F (mm)	G (mm)	G* (mm)	H (mm)	I (mm)	Dry mass** (kg)
	(mm)	(mm)	(mm)	(mm)	(mm)	(Shallow)	(Deep)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
6DZ H₂	4007	4036	2771	1761	1931	508/650	710/810	200	958	826	1070	924	1950	10720
8DZ H₂	4767	4796	3531	1761	1931	508/650	710/810	200	958	826	1070	924	1950	14005

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

6/8DZ H₂ genset

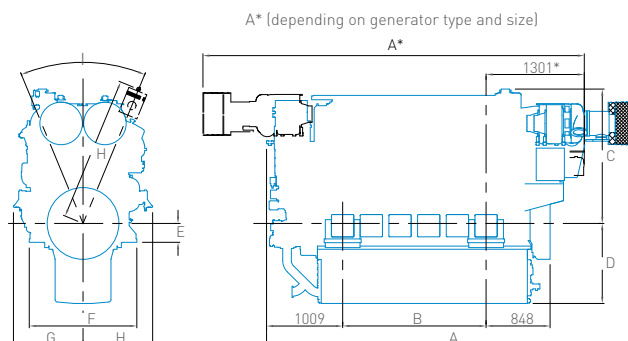


	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	E* (mm)	F (mm)	G (mm)	Dry mass** (kg)
6DZ H₂	6037	6406	1931	1276	1535	826	1070	924	1950	22200
8DZ H₂	6959	7328	1931	1276	1535	826	1070	924	1950	26600

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

12/16DZ H₂ engine

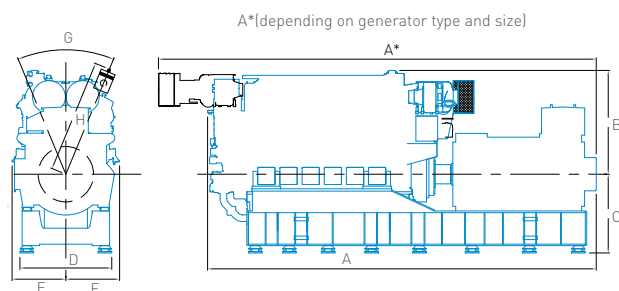


	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (°)	J (mm)	Dry mass** (kg)
12DZ H₂	4896	5053	1900	1780	1060	250	1425	925	925	45	1950	18200
16DZ H₂	5656	5813	2660	1780	1060	250	1425	925	925	45	1950	21950

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

12/16 DZ H₂ 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)
12DZ H₂	6667	7510	1780	1351	1575	925	925	45	1950	33700
16DZ H₂	7847	8690	1780	1351	1575	925	925	45	1950	43400

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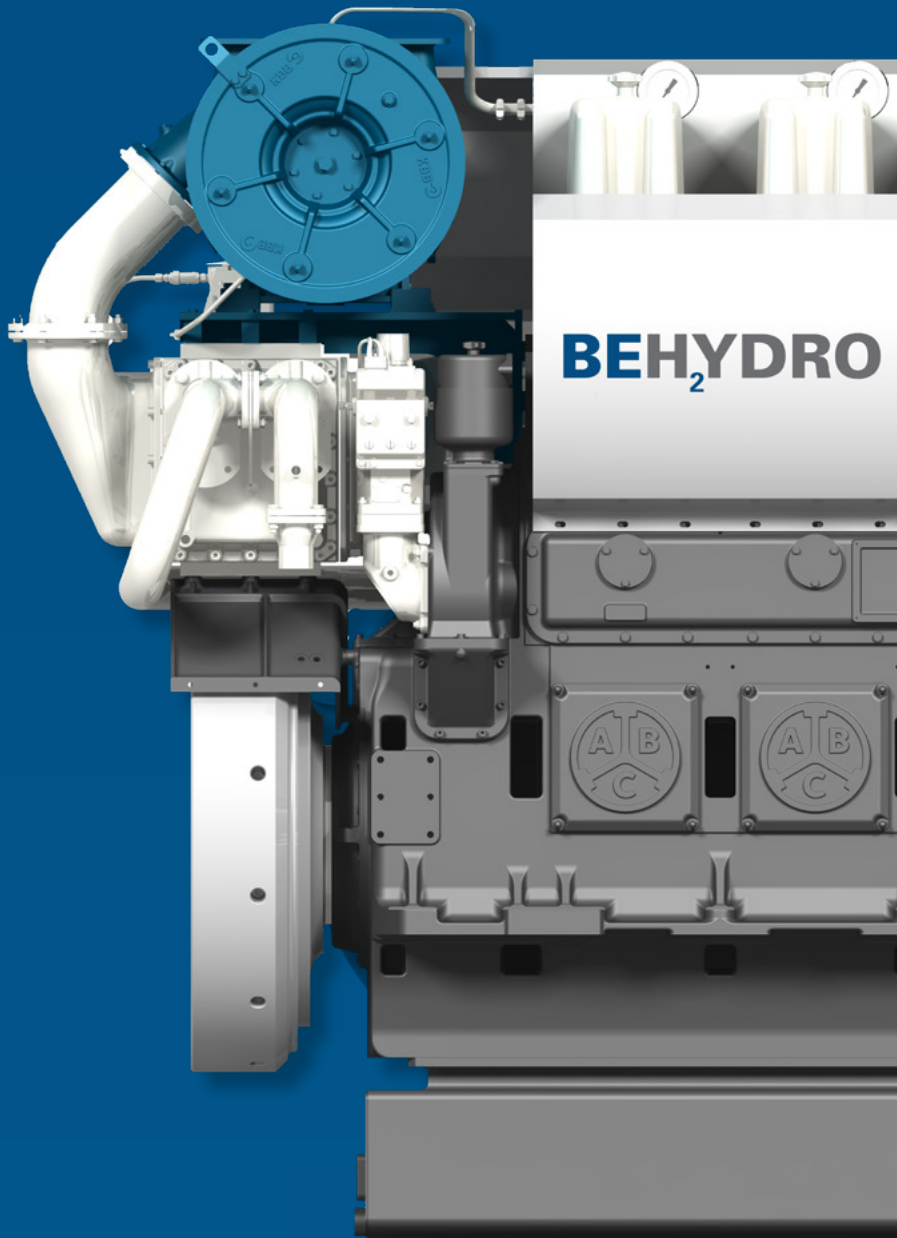
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DATASHEET



ENGINE TYPE

DZD H₂

**POWERED BY
HYDROGEN**

Datasheet engines type DZD H₂

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

BEH₂YDRO reserves the right to alter the technical data without prior notice.

Definition

- DZD H₂:** Medium-speed dual-fuel H₂ 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

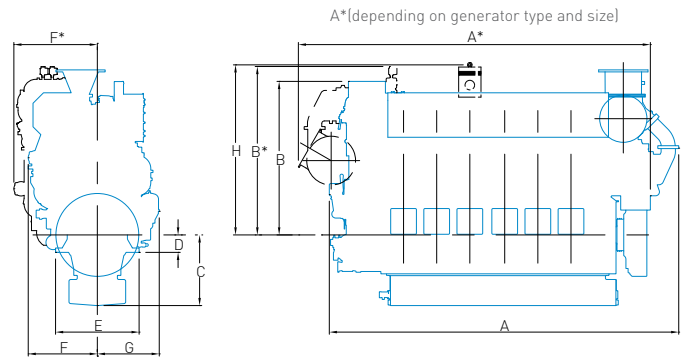
Power

Engine type	rpm	Engine power (ISO 3046 - I)	Nominal power of gensets DZD H ₂			
		kW	50 Hz electric - 3 phase		60 Hz electric - 3 phase	
			P _w (kW)	P _n (kVA)	P _w (kW)	P _n (kVA)
6 DZD H ₂	900	900	---	---	855	1069
	1000	1000	950	1188	---	---
8 DZD H ₂	900	1200	---	---	1140	1425
	1000	1335	1268	1585	---	---
12 DZD H ₂	900	1800	---	---	1710	2138
	1000	2000	1900	2375	---	---
16 DZD H ₂	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 H₂

6/8DZD H₂ engine

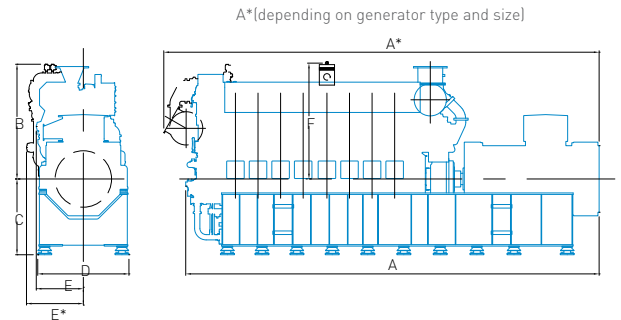


	A (mm)	A* (mm)	B (mm)	C (mm)	C* (mm)	D (mm)		E (mm)	F (mm)	G (mm)	G* (mm)	H (mm)	I (mm)	Dry mass** (kg)
	(mm)	(mm)	(mm)	(mm)	(mm)	(Shallow)	(Deep)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(kg)
6DZD H₂	4007	4036	2771	1761	1931	508/650	710/810	200	958	826	1070	924	1950	10720
8DZD H₂	4767	4796	3531	1761	1931	508/650	710/810	200	958	826	1070	924	1950	14005

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

6/8DZD H₂ genset

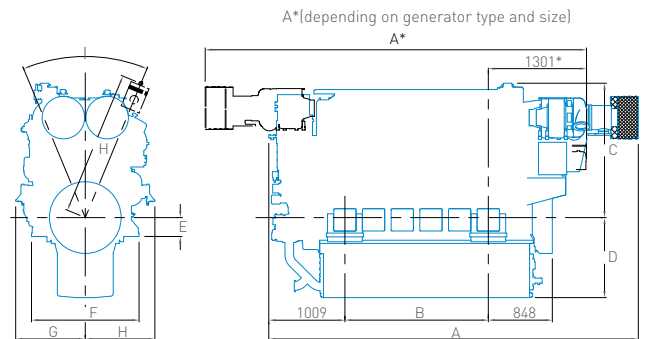


	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	E* (mm)	F (mm)	G (mm)	Dry mass** (kg)
6DZD H₂	6037	6406	1931	1276	1535	826	1070	924	1950	22200
8DZD H₂	6959	7328	1931	1276	1535	826	1070	924	1950	26600

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

12/16DZD H₂ engine

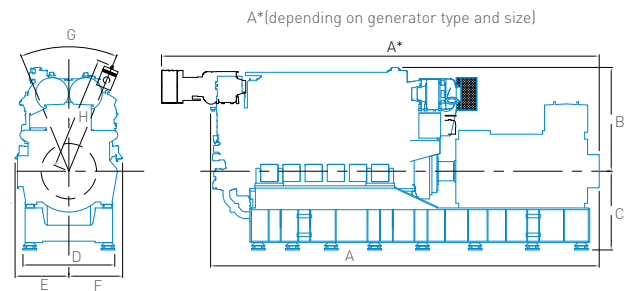


	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (°)	J (mm)	Dry mass** (kg)
12DZD H₂	4896	5053	1900	1780	1060	250	1425	925	925	45	1950	18200
16DZD H₂	5656	5813	2660	1780	1060	250	1425	925	925	45	1950	21950

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

12/16DZD H₂ 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)
12DZD H₂	6667	7510	1780	1351	1575	925	925	45	1950	33700
16DZD H₂	7847	8690	1780	1351	1575	925	925	45	1950	43400

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