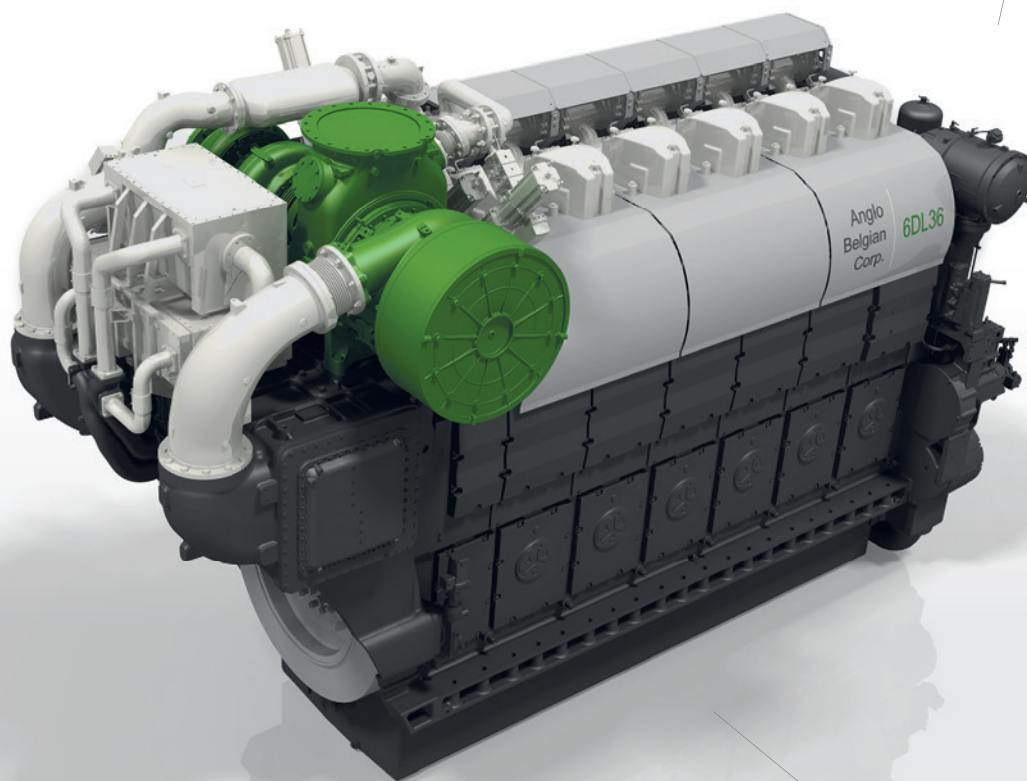




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Datasheet



Engine type

6/8DL36

Datasheet ABC diesel engines type DL36

Operational circumstances based on ISO-conditions (ISO 3046-I).
ABC reserves the right to alter the technical data without prior notice.

Definition

DL36: Medium speed engine, turbocharged & intercooled, available in Anti-clock and Clock rotation.
Can run on diesel, heavy fuel and bio-fuels. Dual fuel execution is also possible.

Basic data

Cycle	4 stroke, single acting
Cylinders	6-8 in line
Bore	365 mm
Stroke	420 mm
Swept volume	6 cylinders: 263,4 liters 8 cylinders: 351,2 liters
Compression ratio	15,5 : 1
Injection	Common Rail (Alternatively: direct, mechanical, one pump per cylinder)
Brake mean effective pressure	23,9 bar (at 750 rpm)
Piston speed	10,5 m/s (at 750 rpm)
Charging system	2 stage charging

Emission

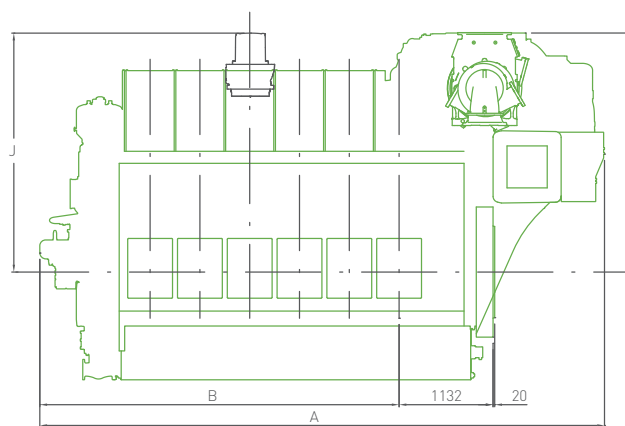
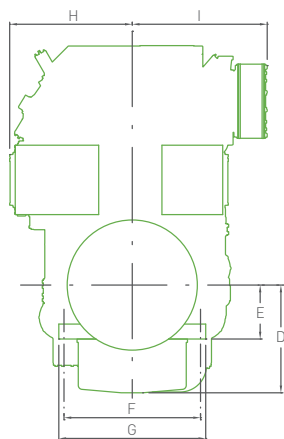
Designed to comply with IMO TIER-3.

Power

Engine type	rpm	Engine power (ISO 3046 – I)		Nominal power of gensets DL36			
		kW	HP	50 Hz electric - 3 phase		60 Hz electric - 3 phase	
				P _w (kW)	P _n (kVA)	P _w (kW)	P _n (kVA)
6 DL36-600	600	3120	4239	2995	3744	2995	3744
6 DL36-720	720	3744	5087	---	---	3594	4493
6 DL36-750	750	3900	5299	3744	4680	---	---
8 DL36-600	600	4160	5652	3994	4992	3994	4992
8 DL36-720	720	4992	6783	---	---	4792	5990
8 DL36-750	750	5200	7065	4992	6240	---	---

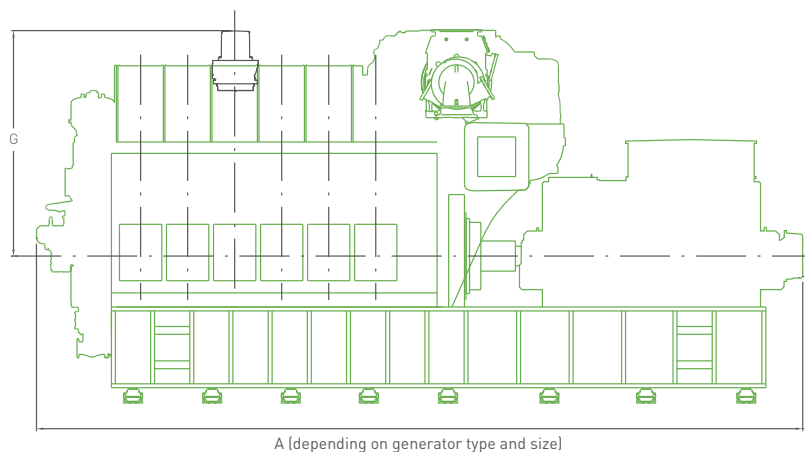
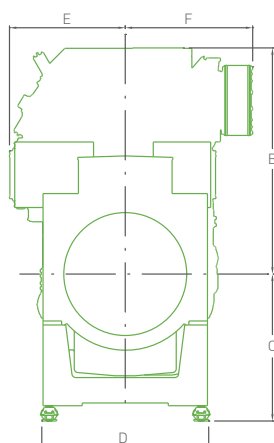
Conversion factors used: 1 metric HP = 0,736 kW → Generator efficiency: $\eta_g = 0,96$ → Power factor: $\cos \varphi = 0,8$

6/8DL36 engine



	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (mm)	J (mm)	Dry mass* (kg)
6DL36	6804	4329	2885	1298	650	1645	1770	1477	1626	2850	55700
8DL36	8004	5529	2885	1298	650	1645	1770	1477	1626	2850	67700

* Flywheel, vibration damper and coolers are included



6/8DL36 genset

	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Dry mass* (kg)
6DL36	9780	2885	1875	2130	1477	1626	2850	91700
8DL36	10980	2885	1875	2130	1477	1626	2850	106700

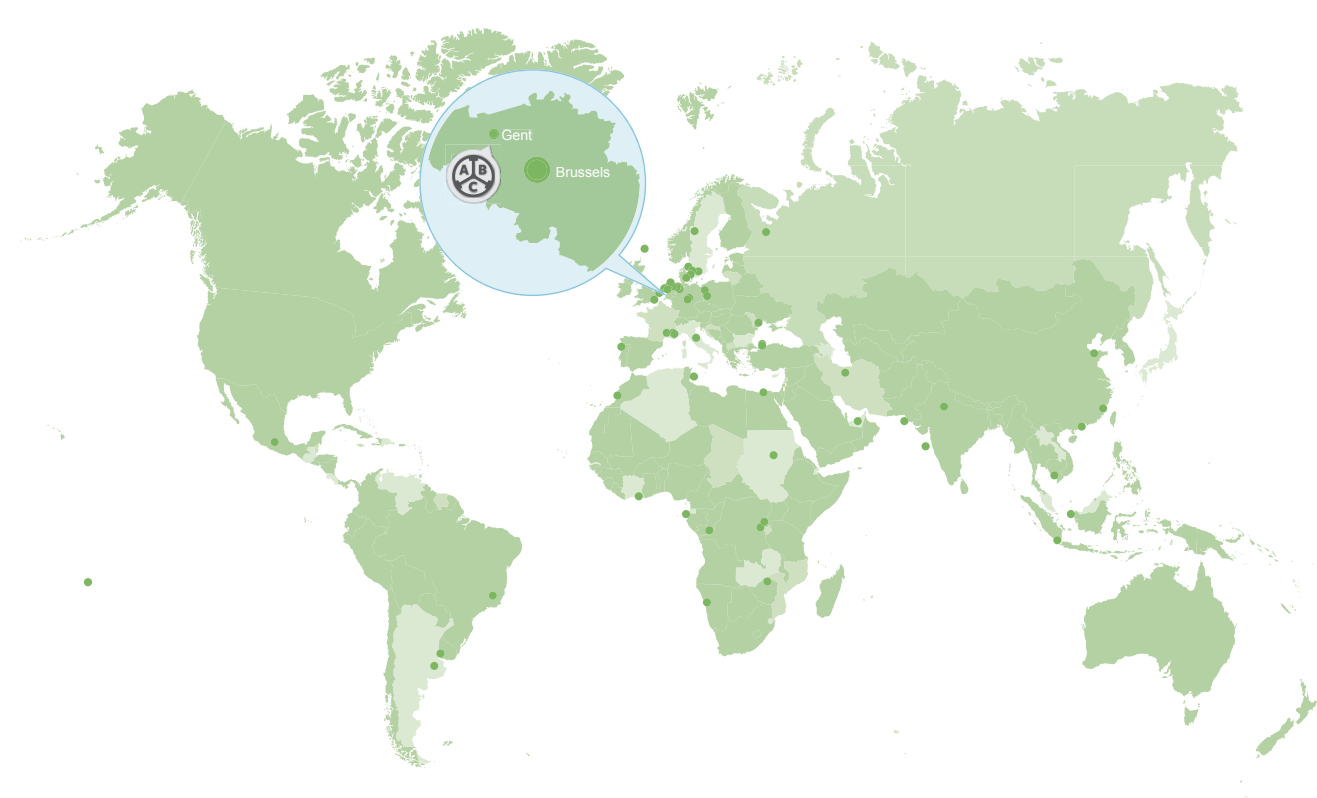
* Genset total mass depending on generator type and size

About classification

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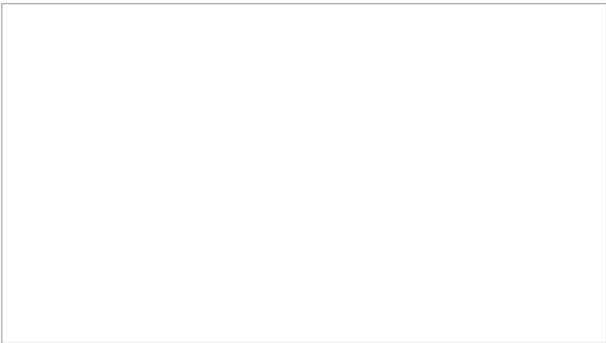


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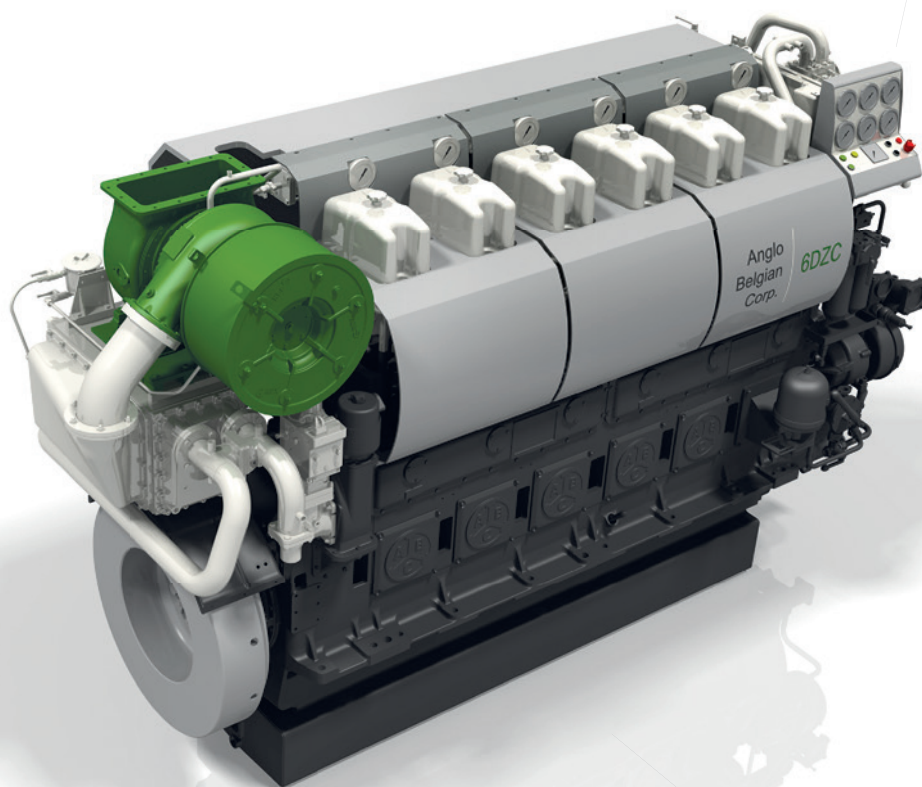
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Datasheet



Engine type

6/8DZC

Datasheet ABC diesel engines type DZC

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

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

Definition

DZC: Medium speed engine, turbocharged & intercooled, available in Anti-clock and Clock rotation. Can run on diesel, heavy fuel, vegetable oil, animal greases, ... Dual fuel execution is also possible.

Basic data

Cycle	4 stroke, single acting		
Cylinders	6-8 in line		
Bore	256 mm		
Stroke	310 mm		
Swept volume	6 cylinders:	95,7 liters	
	8 cylinders:	127,6 liters	
Compression ratio	12,1 : 1		
Injection	Direct, mechanical		
	One pump per cylinder		
Brake mean effective pressure	18,8 bar (at 1000 rpm)		
Piston speed	10,3 m/s (at 1000 rpm)		

Emission

Comply with all environmental requirements, such as IMO TIER-2, CCNR-2 and EU3A.

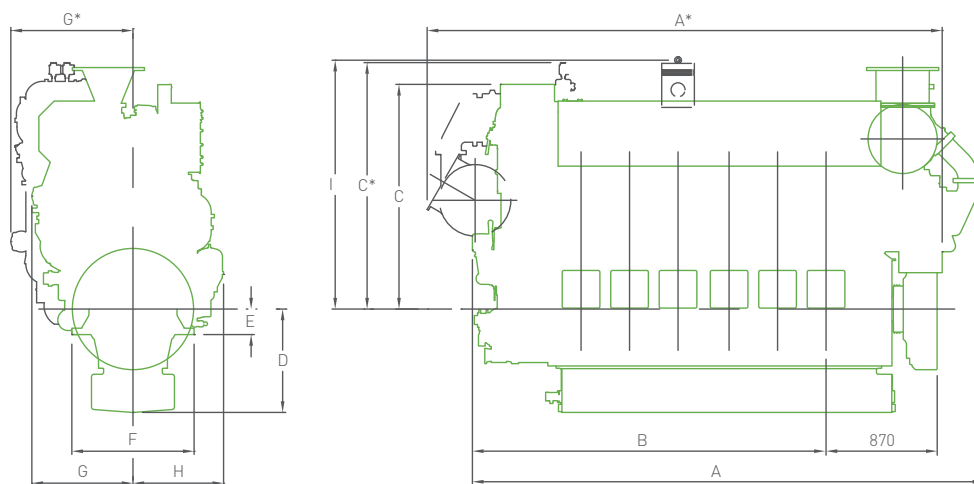
Power

Engine type	rpm	Engine power (ISO 3046 - I)		Nominal power of gensets DZC			
		kW	HP	50 Hz electric - 3 phase		60 Hz electric - 3 phase	
				P _W (kW)	P _n (kVA)	P _W (kW)	P _n (kVA)
6 DZC-720-181	720	1032	1402	---	---	980	1225
6 DZC-750-179	750	1065	1447	1012	1265	---	---
6 DZC-900-166	900	1194	1622	---	---	1134	1418
6 DZC-900-188 *	900	1350	1834	---	---	1283	1603
6 DZC-1000-166	1000	1326	1802	1260	1575	---	---
6 DZC-1000-176	1000	1405	1910	1335	1668	---	---
6 DZC-1000-188 *	1000	1500	2038	1425	1781	---	---
8 DZC-720-181	720	1376	1870	---	---	1307	1634
8 DZC-750-179	750	1420	1929	1349	1686	---	---
8 DZC-900-166	900	1592	2163	---	---	1512	1890
8 DZC-900-188 *	900	1800	2446	---	---	1710	2138
8 DZC-1000-166	1000	1768	2402	1680	2100	---	---
8 DZC-1000-176	1000	1875	2545	1780	2225	---	---
8 DZC-1000-188 *	1000	2000	2717	1900	2375	---	---

* For special applications

Conversion factors used: 1 metric HP = 0,736 kW → Generator efficiency: $\eta_g = 0,95$ → Power factor: $\cos \varphi = 0,8$

6/8DZC engine

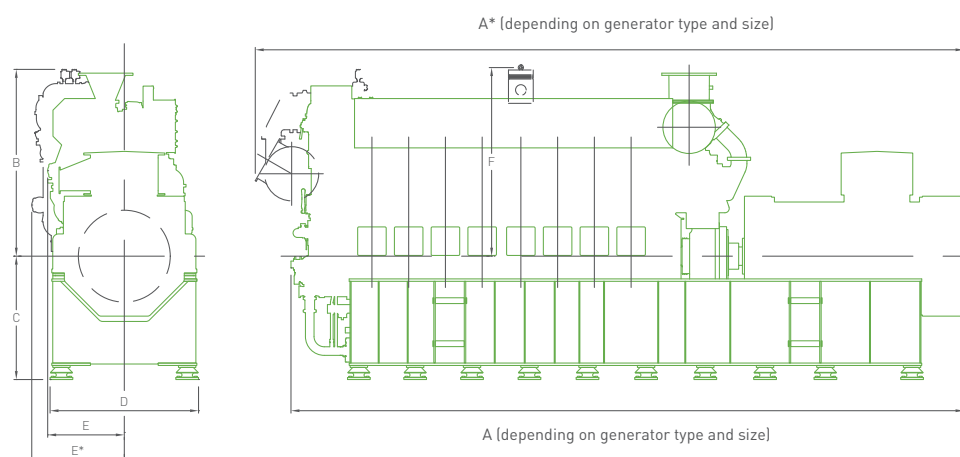


	A (mm)	A* (mm)	B (mm)	C (mm)	C* (mm)	D (mm)		E (mm)	F (mm)	G (mm)	G* (mm)	H (mm)	I (mm)	Dry mass** (kg)
						(Shallow)	(Deep)							
6DZC	4007	4036	2771	1761	1931	508/650	710/810	200	958	793	957	710	1950	10620
8DZC	4767	4796	3531	1761	1931	508/650	710/810	200	958	793	957	710	1950	13905

* Turbocharger at free end side

** Flywheel, vibration damper and coolers are included

6/8DZC genset



	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	E* (mm)	F (mm)	Dry mass** (kg)
6DZC	6037	6406	1931	1276	1535	793	957	1950	22100
8DZC	6959	7328	1931	1276	1535	793	957	1950	26500

* Turbocharger at free end side

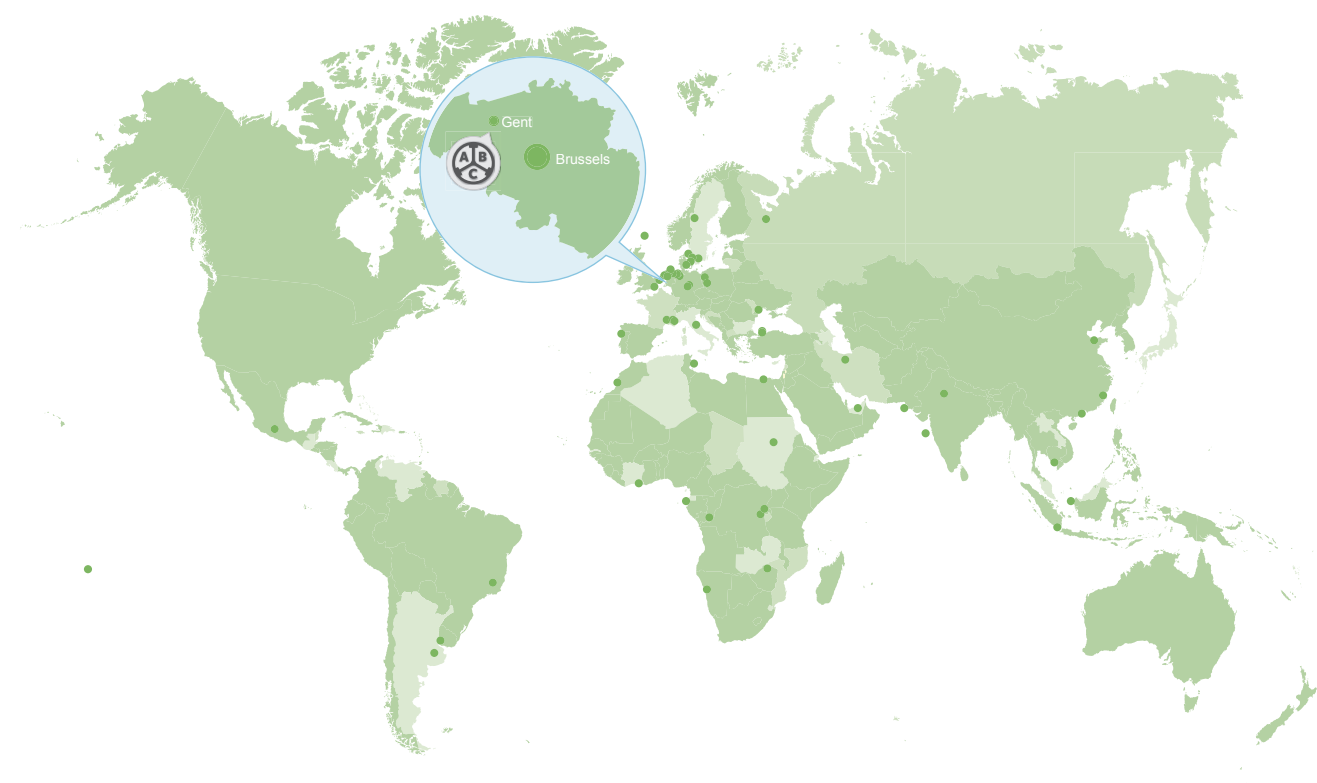
** Genset total mass depending on generator type and size

About classification

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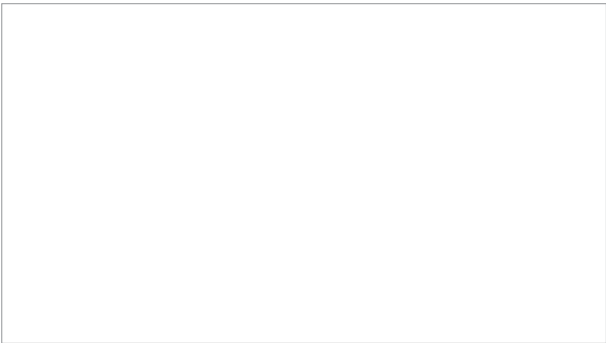
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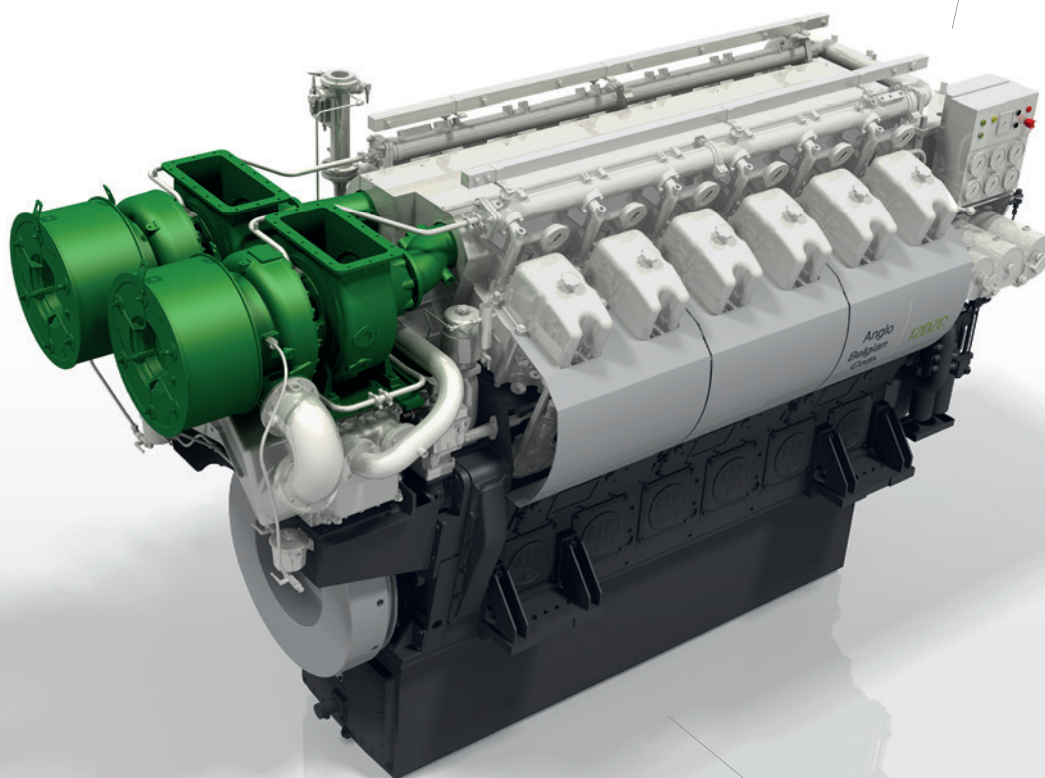
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Datasheet



Engine type

12/16DZC

Datasheet ABC diesel engines type (V)DZC

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

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

Definition

(V)DZC: Medium speed engine, turbocharged & intercooled, available in Anti-clock and Clock rotation. Can run on diesel, heavy fuel, vegetable oil, animal greases, ... Dual fuel execution is also possible.

Basic data

Cycle	4 stroke, single acting		
Cylinders	12-16 in V		
Bore	256 mm		
Stroke	310 mm		
Swept volume	12 cylinders:	191,5 liters	
	16 cylinders:	255,2 liters	
Compression ratio	12,1 : 1		
Injection	Direct, mechanical		
	One pump per cylinder		
Brake mean effective pressure	18,8 bar (at 1000 rpm)		
Piston speed	10,3 m/s (at 1000 rpm)		

Emission

Comply with all environmental requirements, such as IMO TIER-2, CCNR-2 and EU3A.

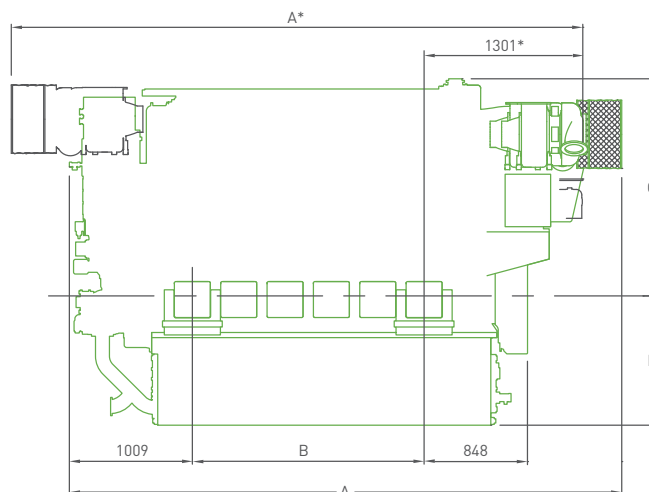
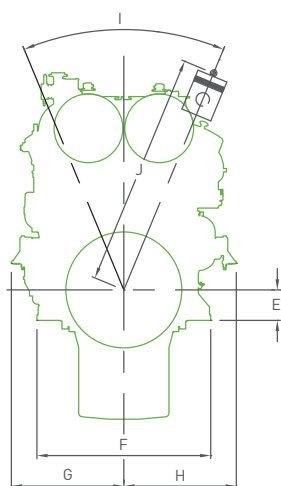
Power

Engine type	rpm	Engine power (ISO 3046 - I)		Nominal power of gensets (V)DZC			
		kW	HP	50 Hz electric - 3 phase		60 Hz electric - 3 phase	
				P _W (kW)	P _n (kVA)	P _W (kW)	P _n (kVA)
12 DZC-720-181	720	2064	2804	---	---	1961	2451
12 DZC-750-179	750	2130	2894	2024	2530	---	---
12 DZC-900-166	900	2388	3245	---	---	2269	2836
12 DZC-900-188 *	900	2700	3668	---	---	2565	3206
12 DZC-1000-166	1000	2652	3603	2519	3149	---	---
12 DZC-1000-176	1000	2800	3805	2660	3325	---	---
12 DZC-1000-188 *	1000	3000	4076	2850	3563	---	---
16 DZC-720-181	720	2752	3739	---	---	2614	3268
16 DZC-750-179	750	2840	3859	2698	3372	---	---
16 DZC-900-166	900	3184	4326	---	---	3025	3781
16 DZC-900-188 *	900	3600	4891	---	---	3420	4275
16 DZC-1000-166	1000	3536	4804	3359	4199	---	---
16 DZC-1000-176	1000	3750	5095	3562	4453	---	---
16 DZC-1000-188 *	1000	4000	5435	3800	4750	---	---

* For special applications

Conversion factors used: 1 metric HP = 0,736 kW → Generator efficiency: $\eta_g = 0,95$ → Power factor: $\cos \varphi = 0,8$

12/16DZC engine

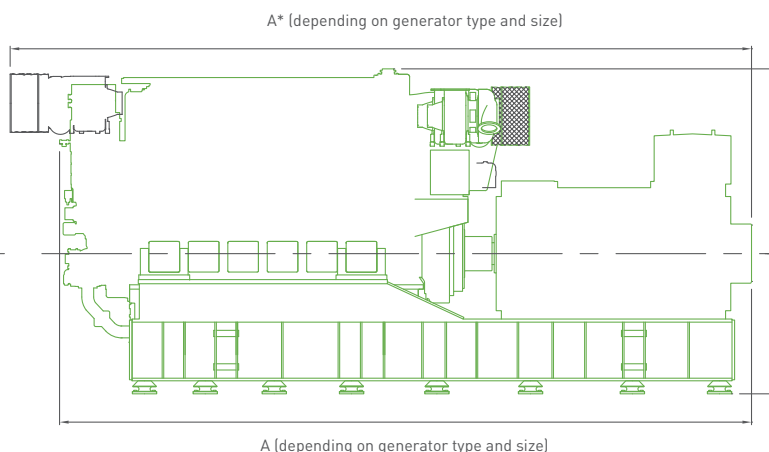
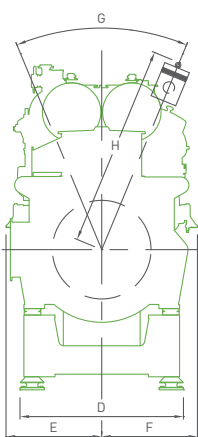


	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	I (°)	J (mm)	Dry mass** (kg)
12DZC	4529	4686	1900	1780	1060	250	1425	925	925	45	1950	18000
16DZC	5289	5446	2660	1780	1060	250	1425	925	925	45	1950	21750

* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

12/16DZC genset



	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (°)	H (mm)	Dry mass** (kg)
12DZC	6667	7143	1780	1351	1575	925	925	45	1950	33500
16DZC	7847	8323	1780	1351	1575	925	925	45	1950	43200

* Turbochargers at free end side

** Genset total mass depending on generator type and size

About classification

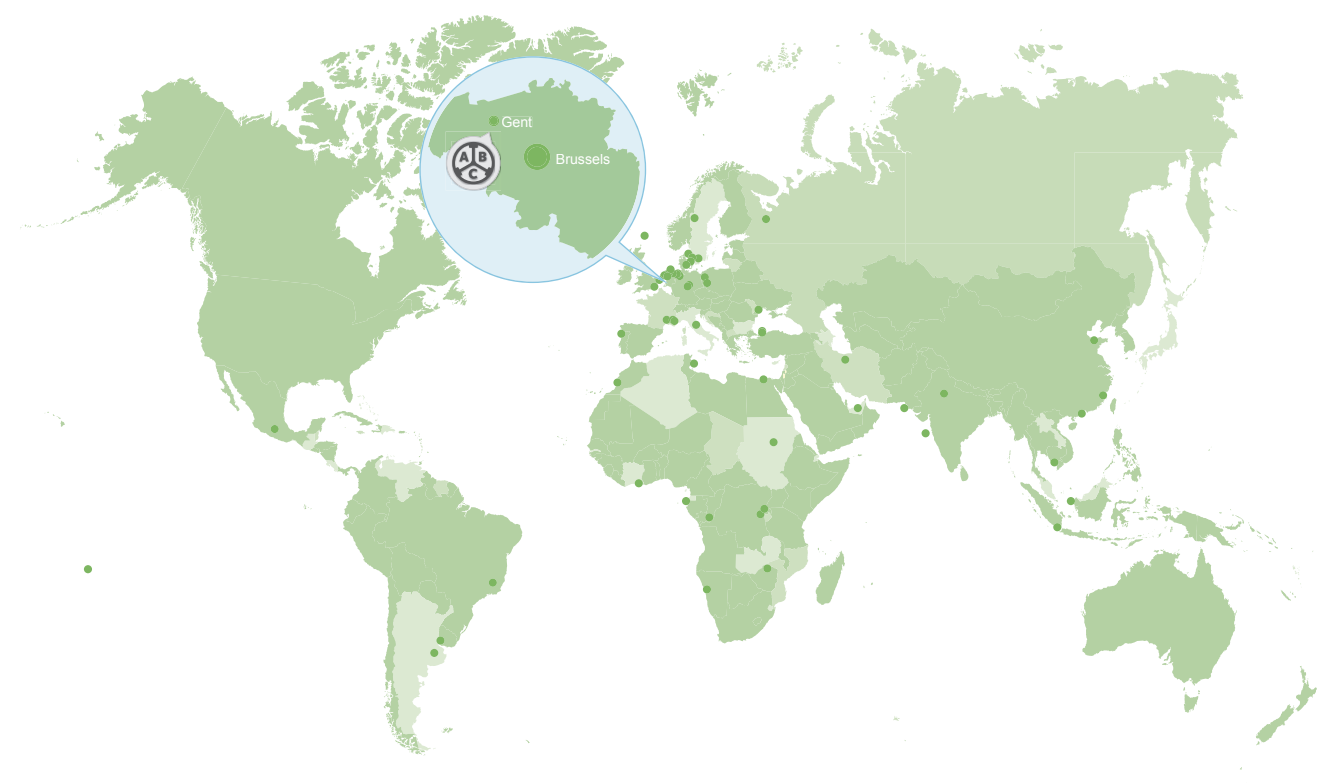
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ISO 9001 : 2008

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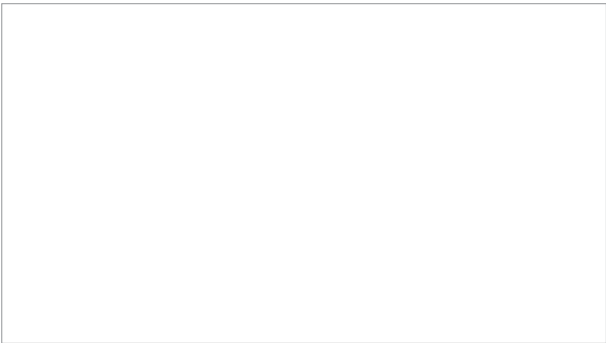
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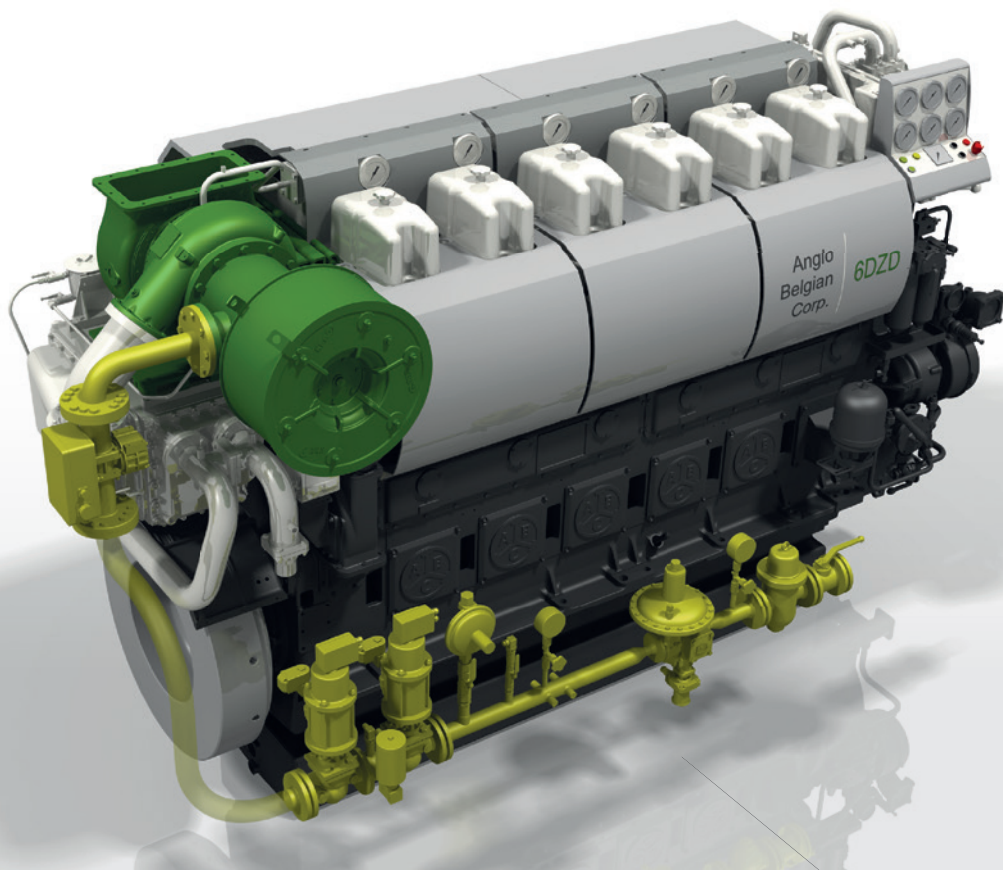
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Datasheet



Engine type

Dual Fuel DZD / (V)DZD

Datasheet ABC dual fuel engines type DZD and (V)DZD

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

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

Definition

- DZD:** Medium speed DZ engine » Turbocharged & intercooled
- (V)DZD:** Medium speed (V)DZ engine » Available in Anti-clock and Clock rotation
- » Built for dual fuel execution

Basic data

Engine type	6 DZD	8 DZD	12 DZD	16 DZD
Swept volume (liters)	95,7	127,6	191,5	255,2
Number of Cylinders	6	8	12	16
Bore (mm)	256	256	256	256
Stroke (mm)	310	310	310	310
Compression ratio	12,1:1	12,1:1	12,1:1	12,1:1
Brake mean effective pressure (bar)	12,5	12,5	12,5	12,5

Power

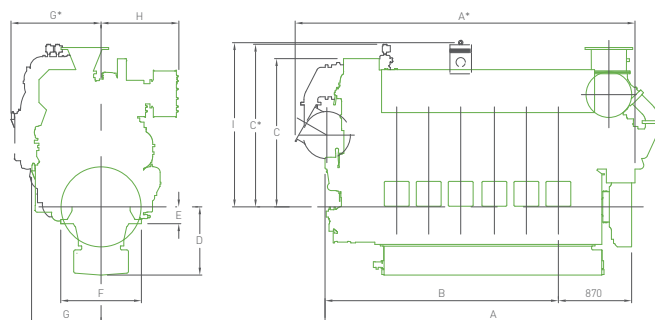
Engine type	rpm	Engine power (ISO 3046 - I)	Nominal power of gensets DZD and (V)DZD			
		kW	50 Hz electric - 3 phase		60 Hz electric - 3 phase	
			P _w (kW)	P _n (kVA)	P _w (kW)	P _n (kVA)
6 DZD	720	720	---	---	684	855
	750	750	713	891	---	---
	900	900	---	---	855	1069
	1000	1000	950	1188	---	---
8 DZD	720	960	---	---	912	1140
	750	1000	950	1188	---	---
	900	1200	---	---	1140	1425
	1000	1335	1268	1585	---	---
12 DZD	720	1440	---	---	1368	1710
	750	1500	1425	1781	---	---
	900	1800	---	---	1710	2138
	1000	2000	1900	2375	---	---
16 DZD	720	1920	---	---	1824	2280
	750	2000	1900	2375	---	---
	900	2400	---	---	2280	2850
	1000	2670	2537	3171	---	---

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

Natural gas with Methane Index = 73 $\rightarrow$ Lower Calorific Value gas = 39.000 kJ/Nm³ $\rightarrow$ Lower Calorific Value diesel = 42.700 kJ/kg

Possible gases: natural gas, waste gas, landfill gas (the ability to burn other gases should be done in consultation with ABC)

6/8DZD engine

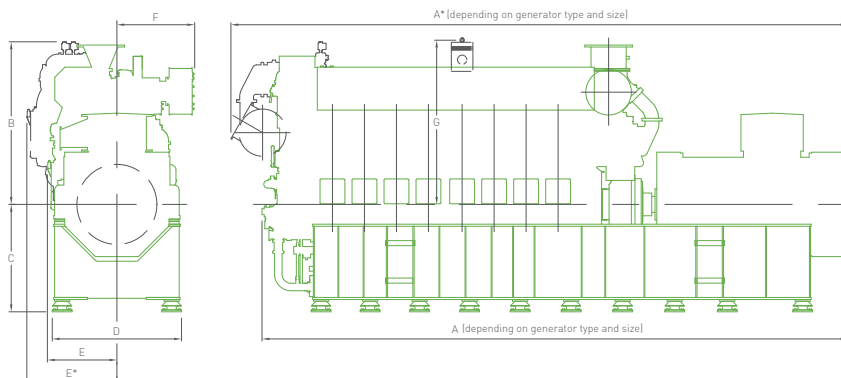


* Turbocharger at free end side

** Flywheel, vibration damper and coolers are included

	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)
						[Shallow]	[Deep]							
6DZD	4007	4036	2771	1761	1931	508/650	710/810	200	958	826	1070	924	1950	10720
8DZD	4767	4796	3531	1761	1931	508/650	710/810	200	958	826	1070	924	1950	14005

6/8DZD genset

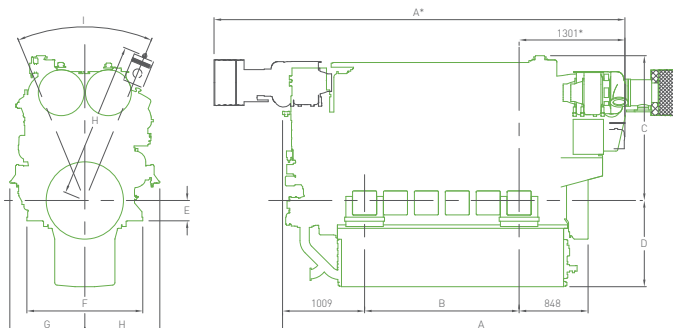


* Turbocharger at free end side

** Genset total mass depending on generator type and size

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

12/16DZD engine

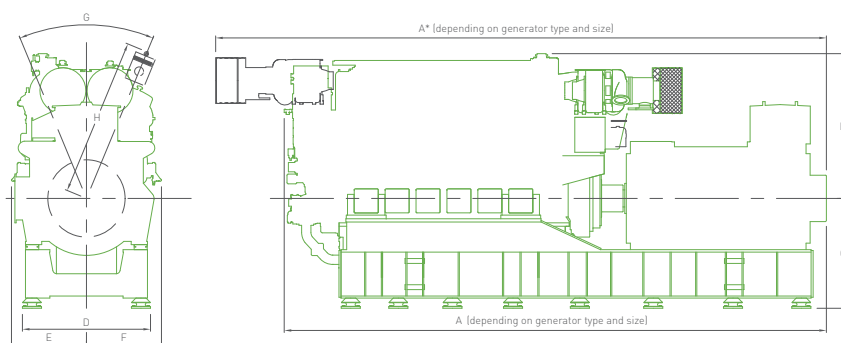


* Turbochargers at free end side

** Flywheel, vibration damper and coolers are included

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

12/16DZD genset

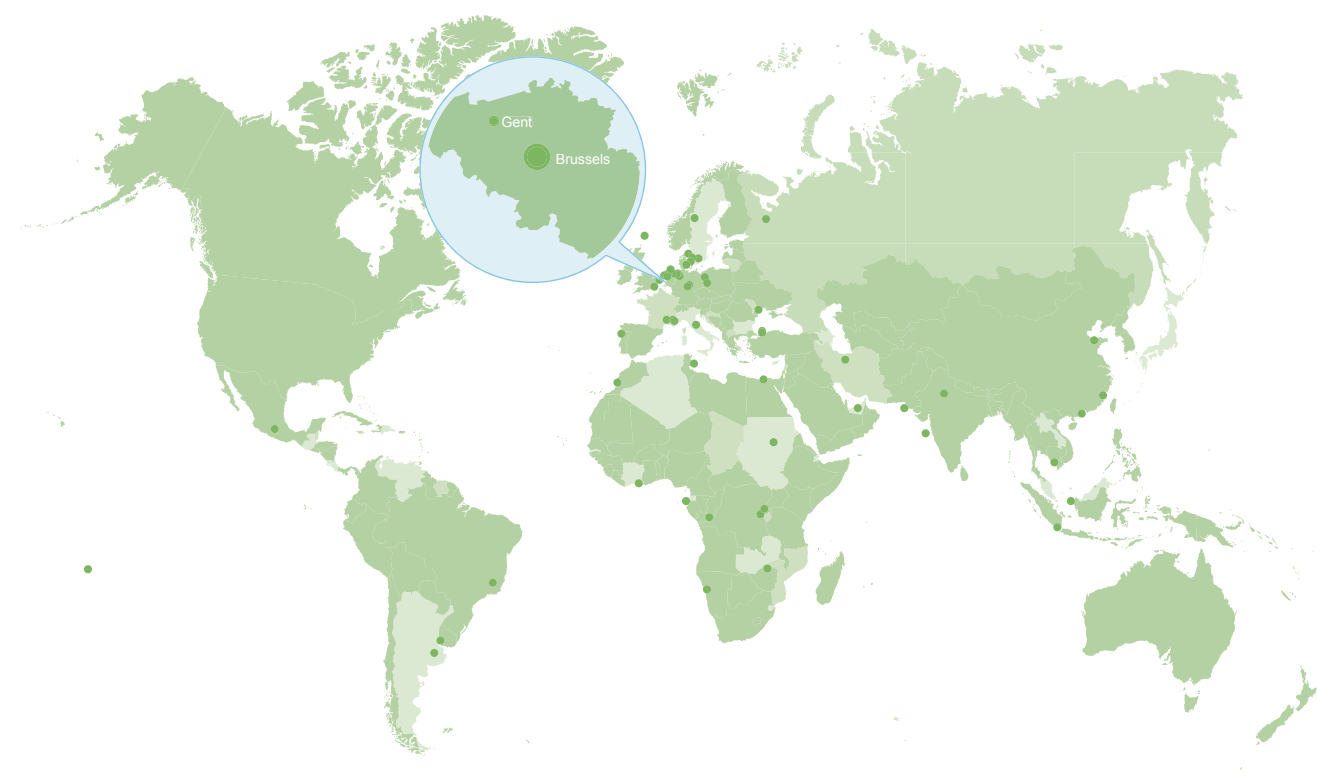


* Turbochargers at free end side

** Genset total mass depending on generator type and size

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

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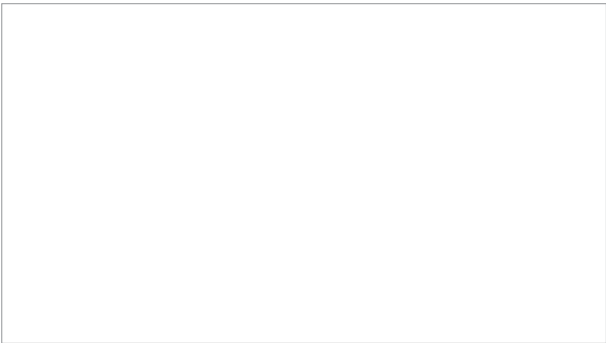
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