ANGLO BELGIAN CORPORATION

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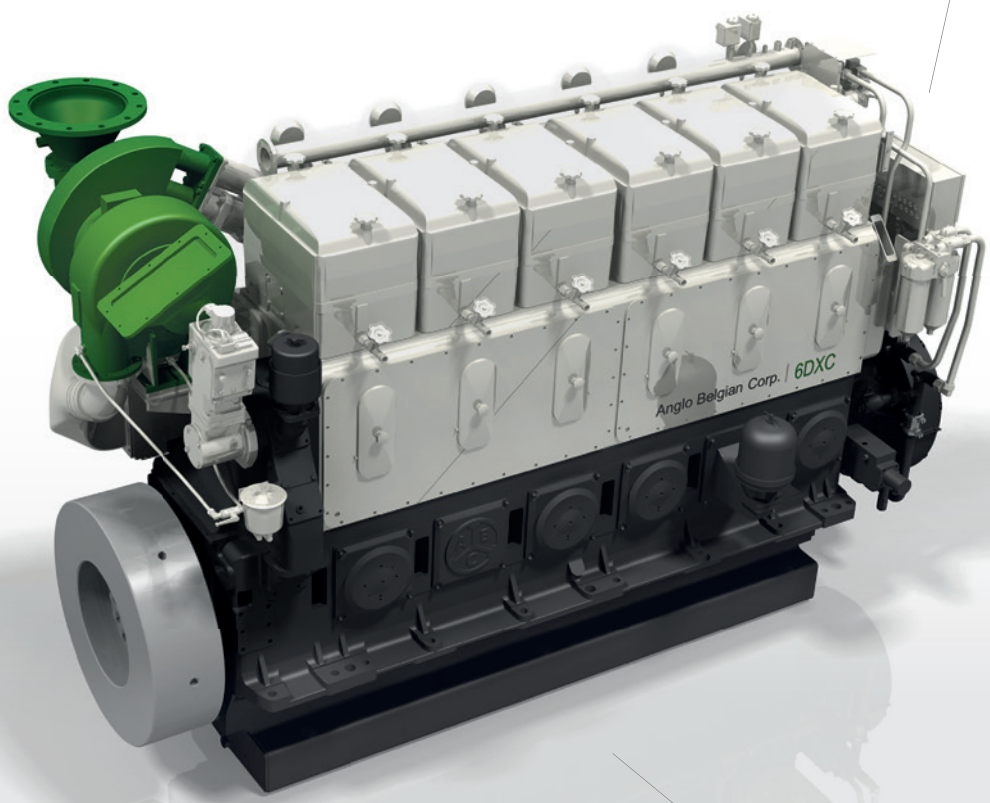
Datasheet



Engine type

3/6/8DX(S)(C)

Tech Library http://engine.od.ua

Datasheet ABC diesel engines type DX, DXS and DXC

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

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

Definition

DX: Natural aspiration **DXS:** Turbocharged **DXC:** Turbocharged & Intercooled

Basic data

Cycle	4 stroke, single acting
Cylinders	3-6-8 in line
Bore	242 mm
Stroke	320 mm
Swept volume	6 cylinders: 88,3 liters 8 cylinders: 117,8 liters
Compression ratio	DX: 12,45 : 1 DXS/DXC: 12,06 : 1
Injection	Direct, mechanical One pump per cylinder
Brake mean effective pressure	11,99 bar (DXC at 750 rpm)
Piston speed	8,0 m/s (at 750 rpm)

Emission

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

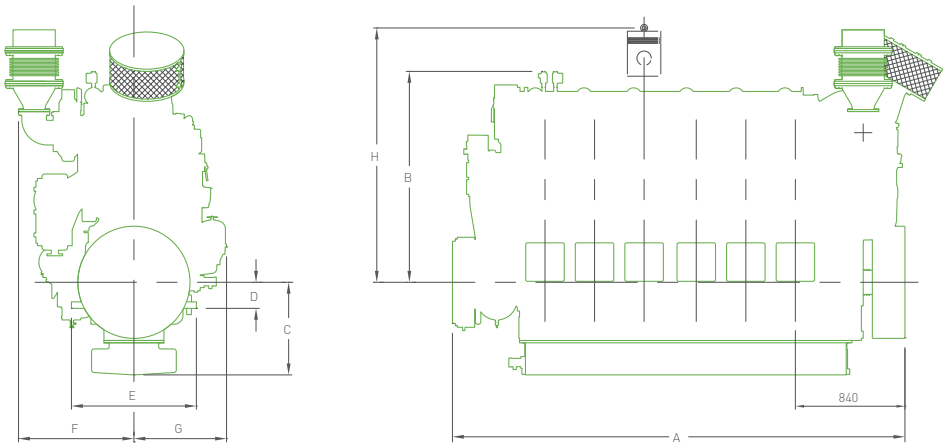
Power

Engine type	rpm	Engine power (ISO 3046 – I)		Nominal power of gensets DX(S)(C)			
				50 Hz electric - 3 phase		60 Hz electric - 3 phase	
		kW	HP	P_W (kW)	P_n (kVA)	P_W (kW)	P_n (kVA)
3 DX–600–000	600	138	188	131	164	131	164
3 DXS-720-045	720	236	321	---	---	224	280
3 DXC-750-100	750	331	450	314	393	---	---
6 DX-600-000	600	276	375	262	328	262	328
6 DXS-720-045	720	470	639	---	---	447	558
6 DXC-750-100	750	662	899	629	786	---	---
8 DX-600-000	600	368	500	350	437	350	437
8 DXC-720-100	720	864	1174	---	---	821	1026
8 DXC-750-100	750	883	1200	839	1049	---	---

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

Tech Library http://engine.od.ua

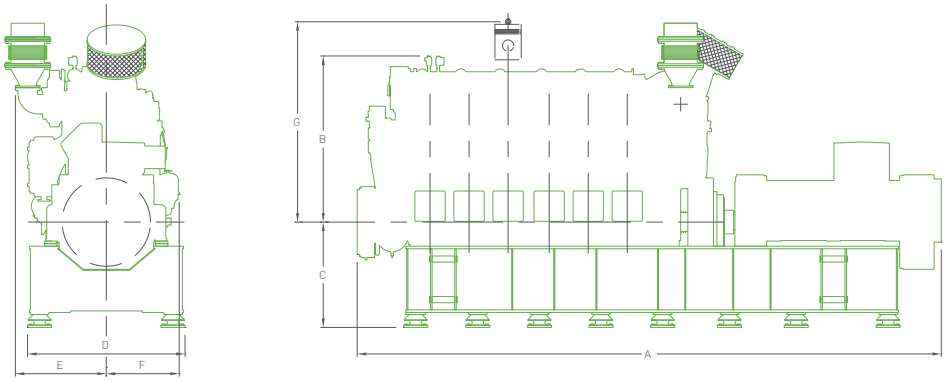
3/6/8DX(S)(C) engine



	A (mm)	B (mm)	C (mm) (Shallow)	C (mm) (Deep)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Dry mass* (kg)
3DX (S)(C)	2310	1617	464	710	200	958	885	710	1950	6900
6DX (S)(C)	3470	1617	464	710	200	958	885	710	1950	8860
8DX (C)	4230	1617	464	710	200	958	885	710	1950	11500

* Flywheel, vibration damper and coolers are included

3/6/8DX(S)(C) genset



	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Dry mass* (kg)
3DX (S)(C)	4180	1617	1026	1535	885	710	1950	12050
6DX (S)(C)	5687	1617	1026	1535	885	710	1950	17060
8DX (C)	6622	1617	1026	1535	885	710	1950	21100

* Genset total mass depending on generator type and size

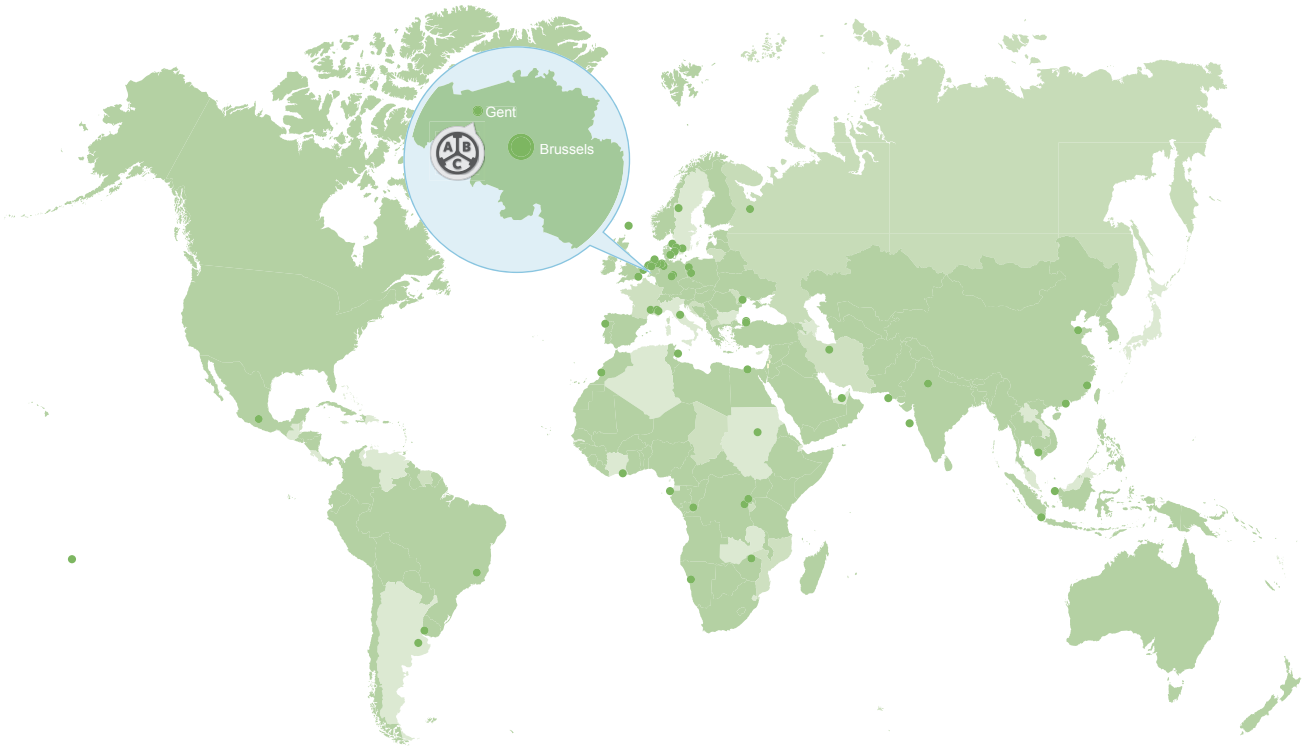
About classification

Anglo Belgian Corporation is ISO9001:2008 certified. All engines are individually tested on test benches with option of the presence of the client and possibility of all major classifications.

ISO 9001 : 2008
BUREAU VERITAS
Certification

Tech Library http://engine.od.ua

Service- and sales support worldwide



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Contact details

Anglo Belgian Corporation
Wiedauwkaai 43
9000 Gent (Belgium)

T +32 (0)9 267 00 00
F +32 (0)9 267 00 67
E info@abcdiesel.be

www.abcdiesel.be
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DATASHEET 3/6/8DX(S)(C) - EN - 10 / 2012

Tech Library http://engine.od.ua

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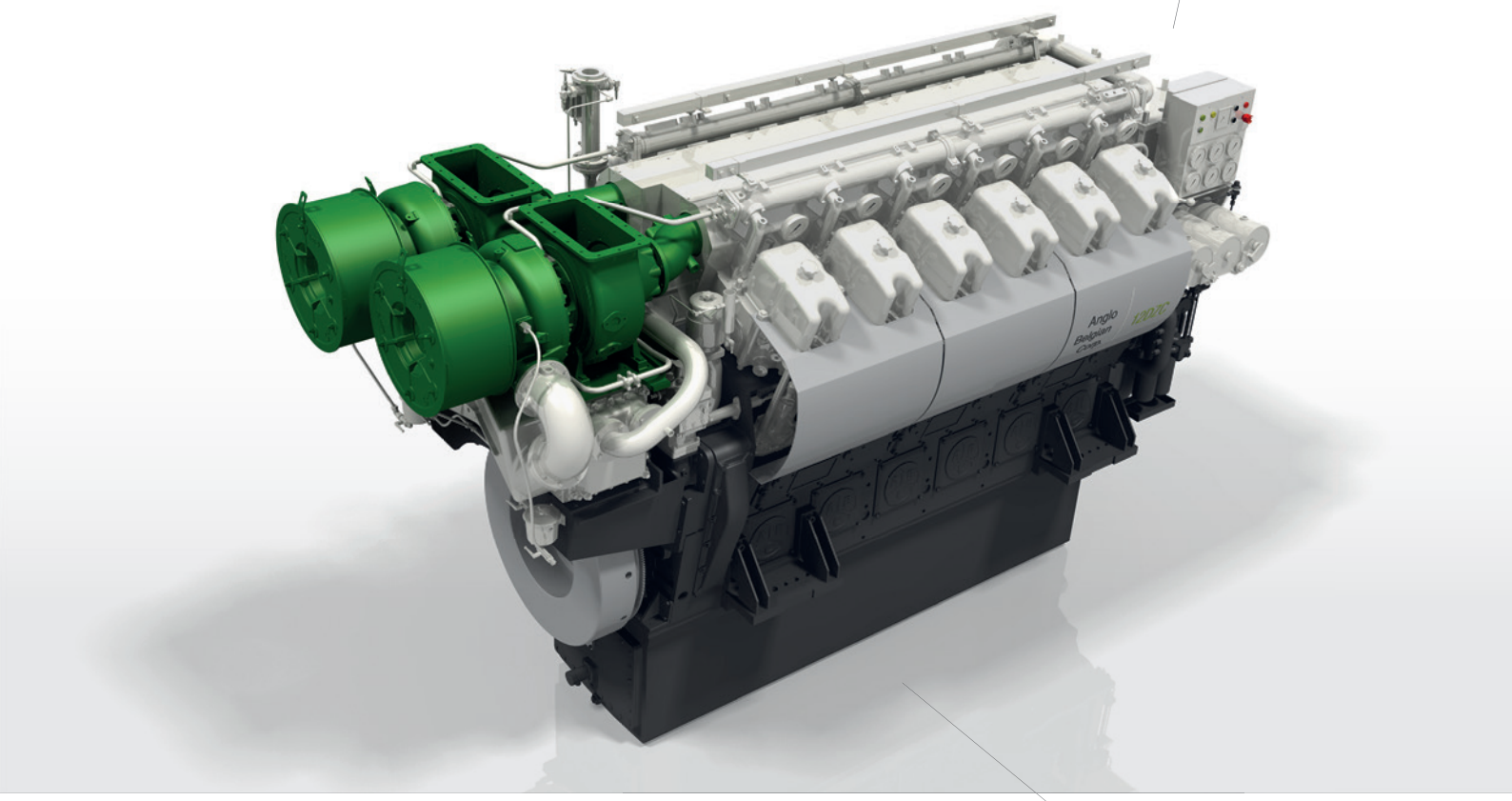


Engine type

12/16DZC

Tech Library http://engine.od.ua

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

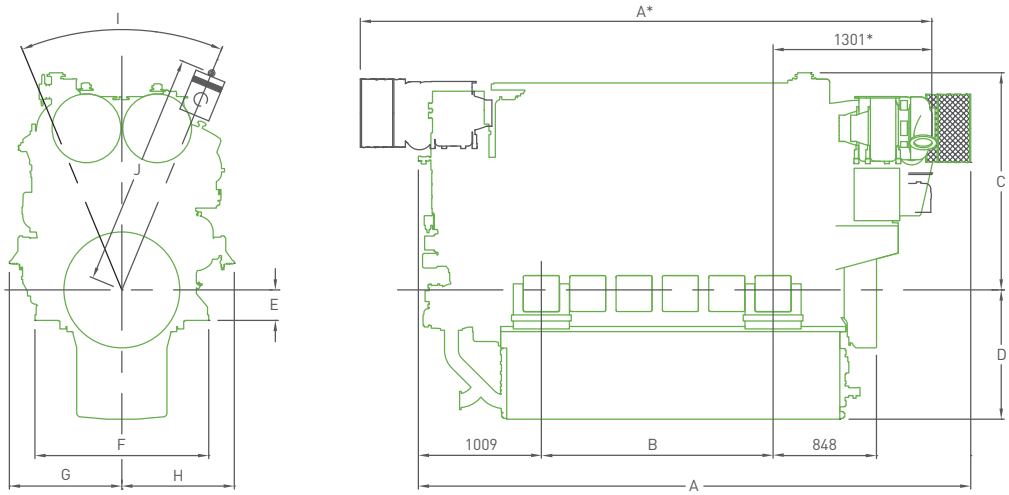
Engine type		rpm	Engine power (ISO 3046 – I)		Nominal power of gensets (V)DZC			
					50 Hz electric - 3 phase		60 Hz electric - 3 phase	
			kW	HP	P_W (kW)	P_n (kVA)	P_W (kW)	P_n (kVA)
12 DZC-720-181		720	2064	2804	---	---	1961	2451
12 DZC-750-179		750	2130	2894	2024	2530	---	---
12 DZC-900-166		900	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: $\cos \varphi = 0,8$

Tech Library http://engine.od.ua

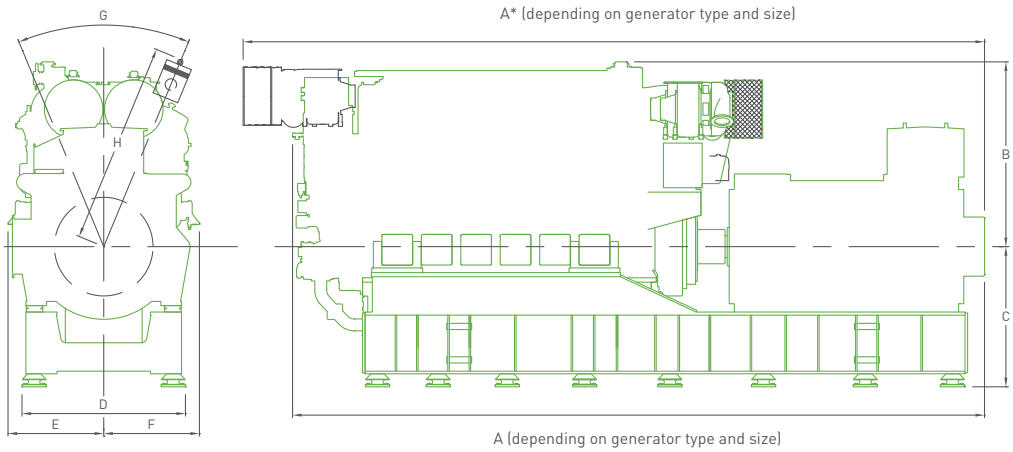
12/16DZC engine



	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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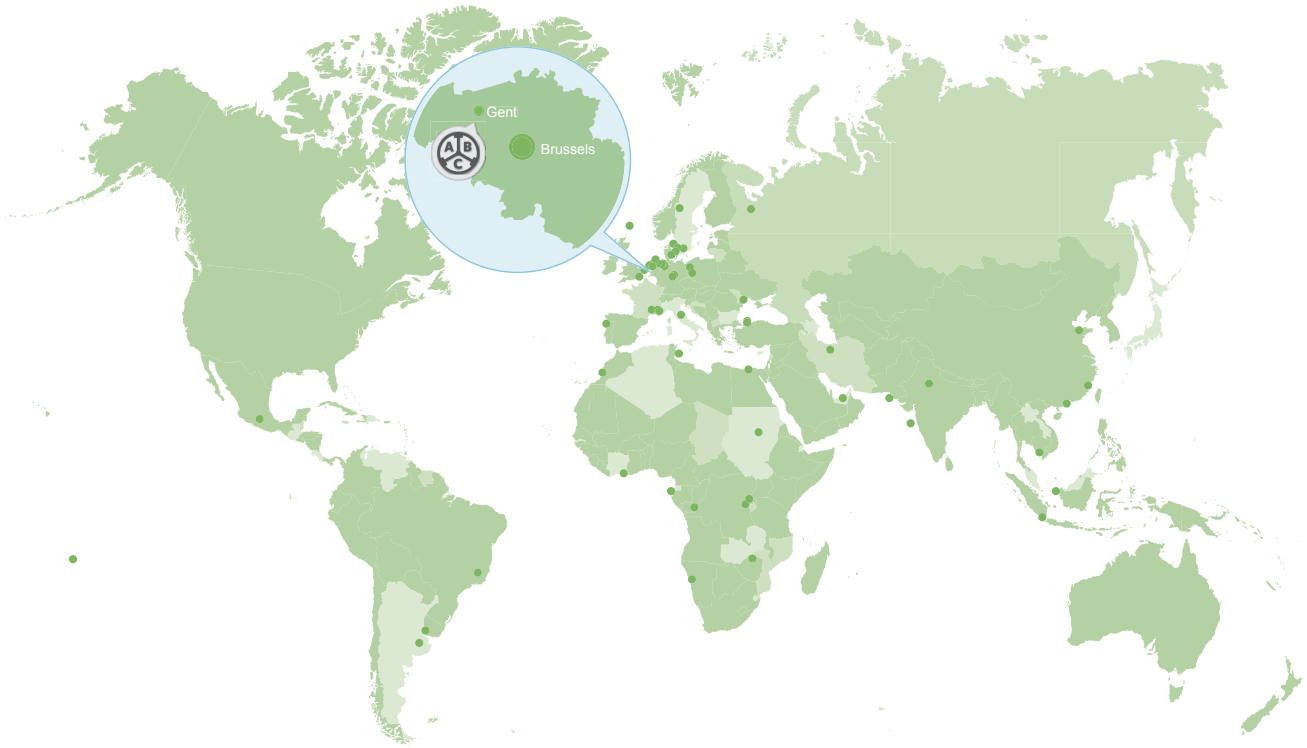
ISO 9001 : 2008
BUREAU VERITAS
Certification

Tech Library http://engine.od.ua

Service- and sales support worldwide



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Contact details

Anglo Belgian Corporation
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9000 Gent (Belgium)

T +32 (0)9 267 00 00
F +32 (0)9 267 00 67
E info@abcdiesel.be

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DATASHEET 12/16DZC - EN - 03 / 2013

Tech Library http://engine.od.ua

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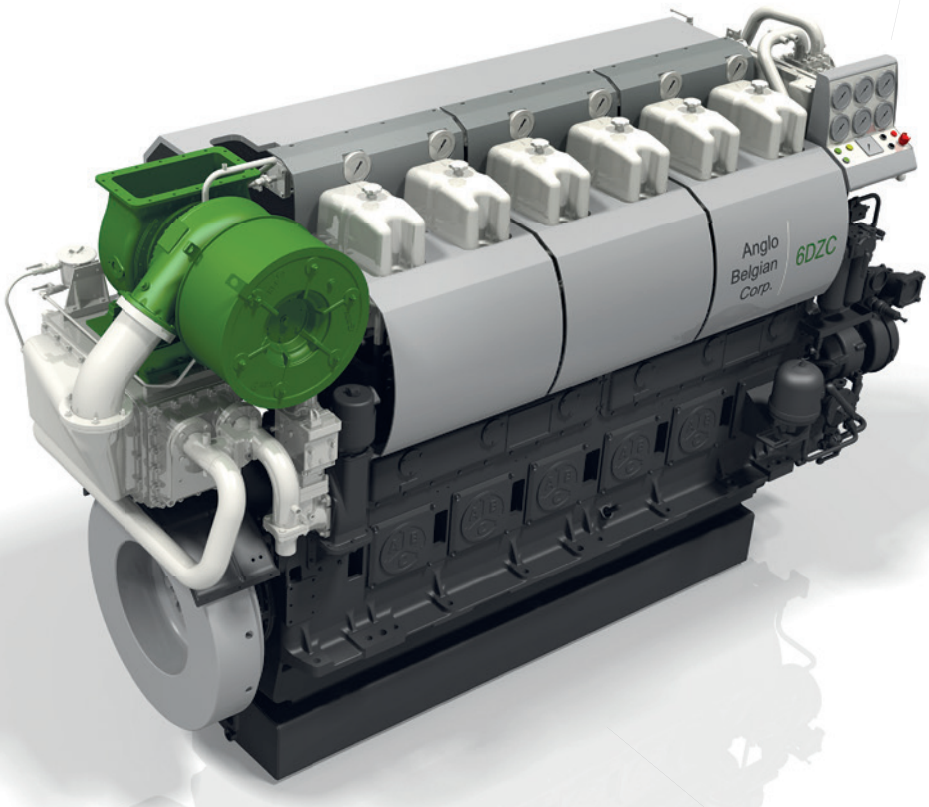


Engine type

6/8DZC

Tech Library http://engine.od.ua

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

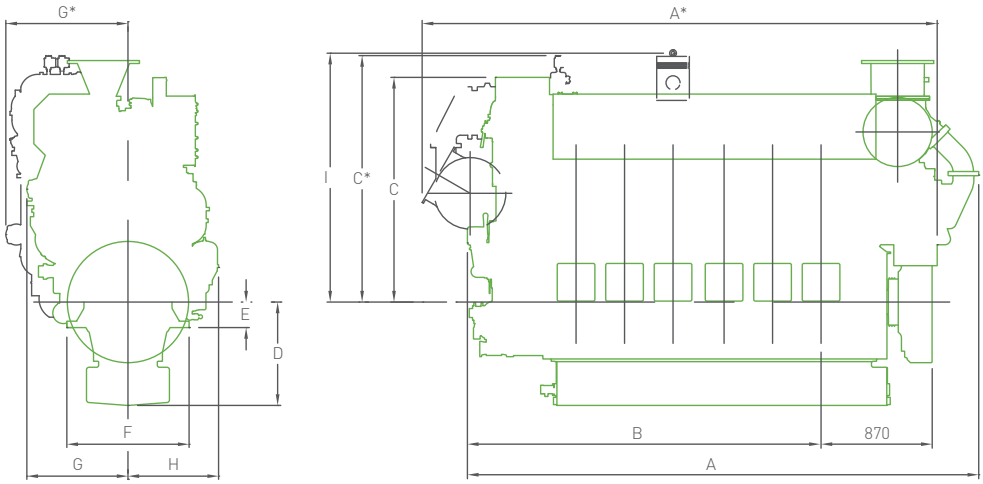
Engine type		rpm	Engine power (ISO 3046 – I)		Nominal power of gensets DZC			
					50 Hz electric - 3 phase		60 Hz electric - 3 phase	
			kW	HP	P_W (kW)	P_n (kVA)	P_W (kW)	P_n (kVA)
6 DZC-720-181		720	1032	1402	---	---	980	1225
6 DZC-750-179		750	1065	1447	1012	1265	---	---
6 DZC-900-166		900	1194	1622	---	---	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: $\cos \varphi = 0,8$

Tech Library http://engine.od.ua

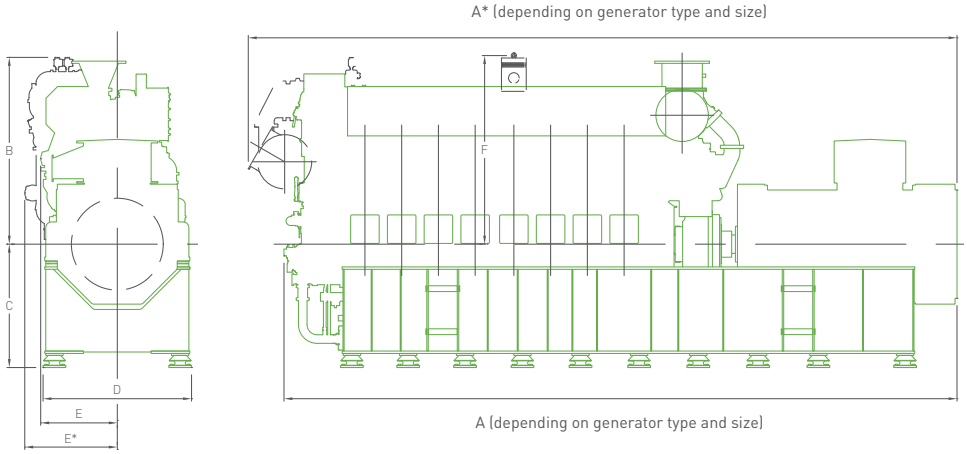
6/8DZC engine



	A (mm)	A* (mm)	B (mm)	C (mm)	C* (mm)	D (mm) (Shallow)	D (mm) (Deep)	E (mm)	F (mm)	G (mm)	G* (mm)	H (mm)	I (mm)	Dry mass** (kg)
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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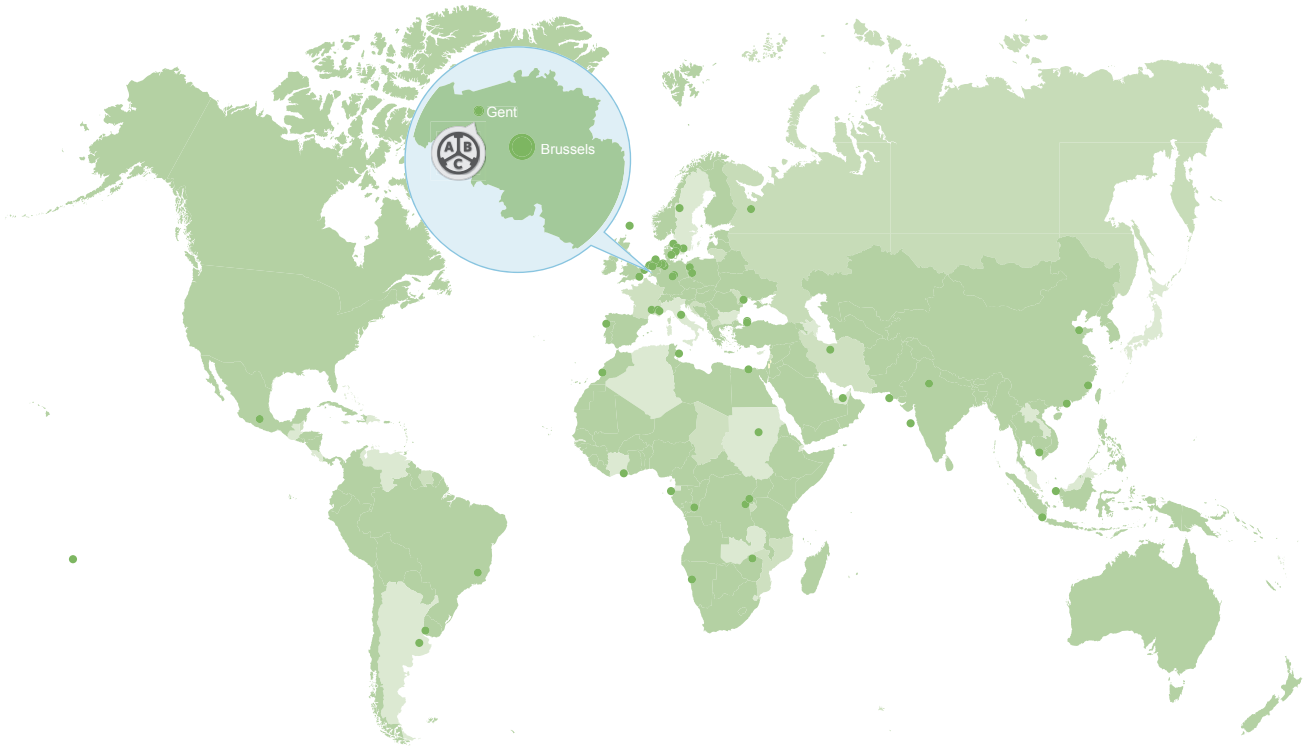
ISO 9001 : 2008
BUREAU VERITAS
Certification

Tech Library http://engine.od.ua

Service- and sales support worldwide



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Contact details

Anglo Belgian Corporation
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F +32 (0)9 267 00 67
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DATASHEET 6/8DZC - EN - 03 / 2013

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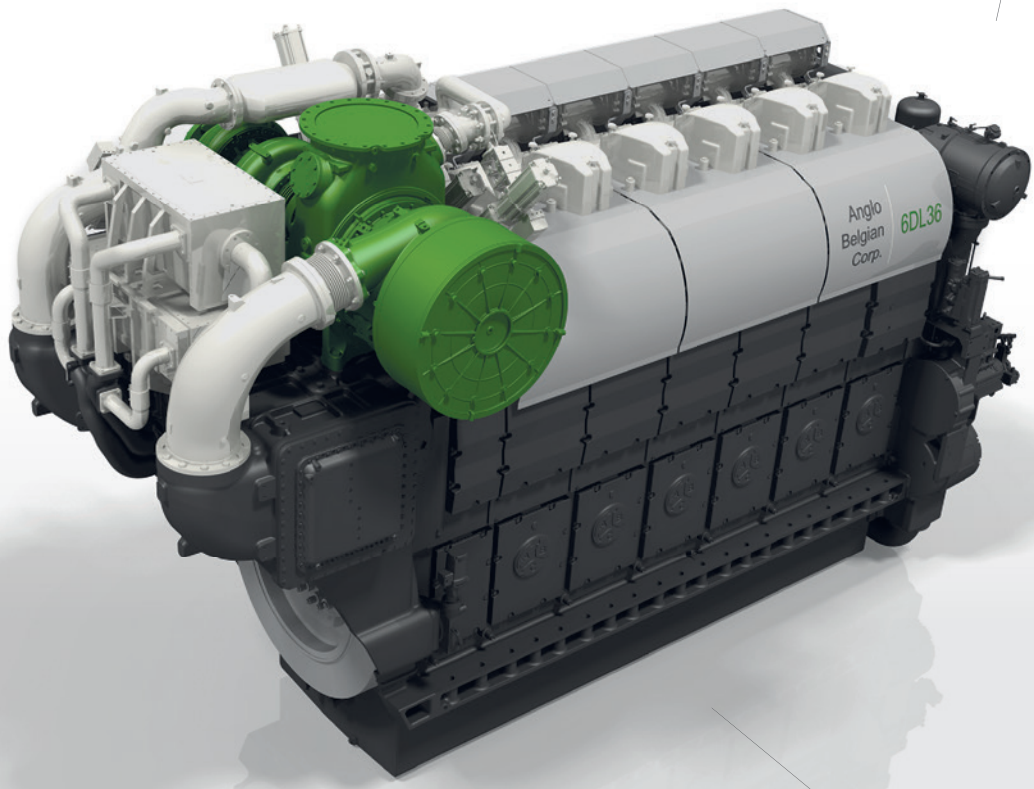


Engine type

6/8DL36

Tech Library http://engine.od.ua

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

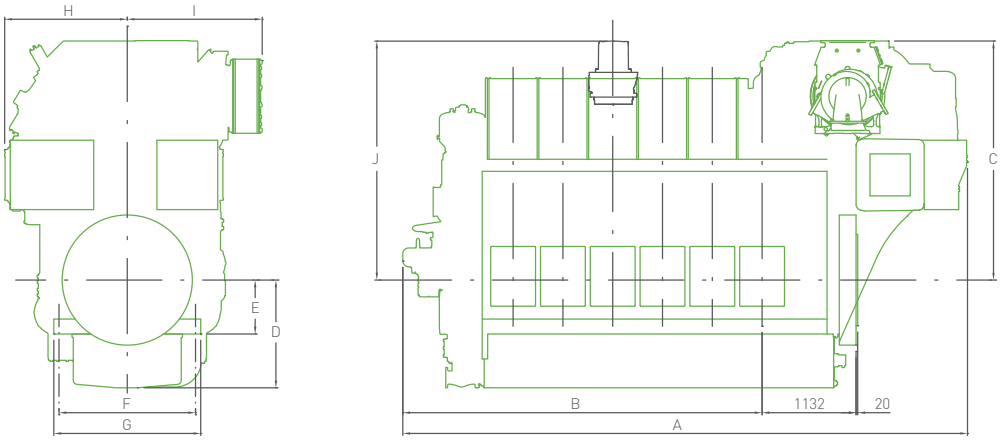
Designed to comply with IMO TIER-3.

Power

Engine type	rpm	Engine power (ISO 3046 – I)		Nominal power of gensets DL36			
				50 Hz electric - 3 phase		60 Hz electric - 3 phase	
		kW	HP	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: $\cos \varphi = 0{,}8$

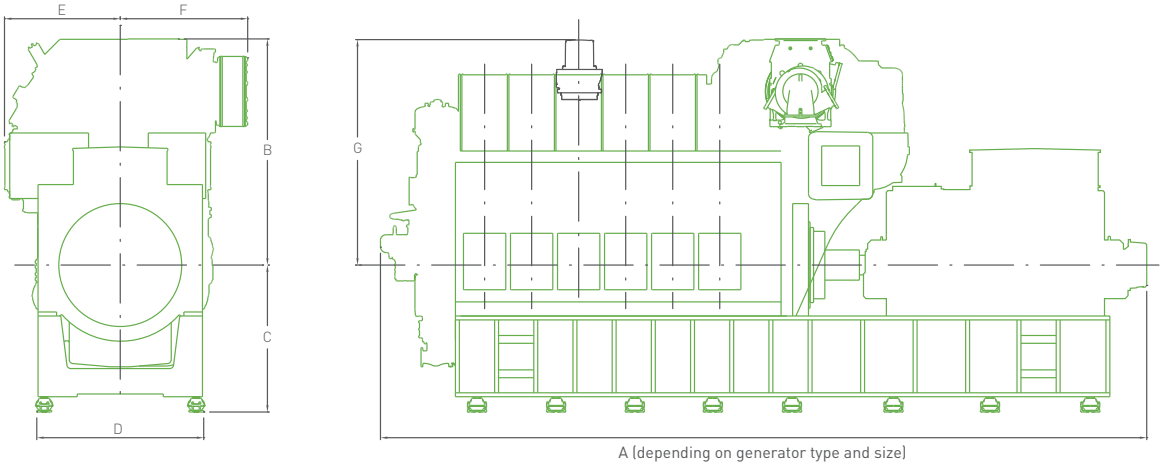
Tech Library http://engine.od.ua



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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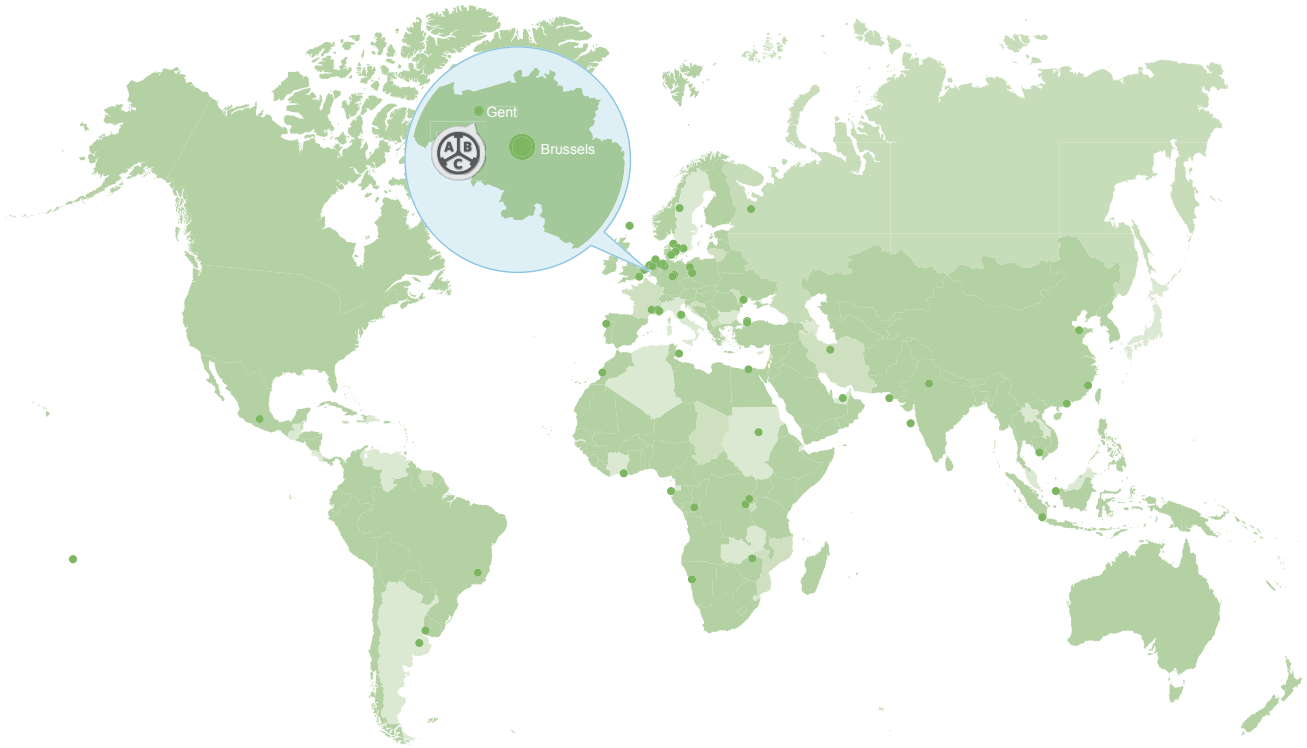
ISO 9001 : 2008
BUREAU VERITAS
Certification

Tech Library http://engine.od.ua

Service- and sales support worldwide



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Contact details

Anglo Belgian Corporation
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9000 Gent (Belgium)

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F +32 (0)9 267 00 67
E info@abcdiesel.be

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DATASHEET 6/8DL36 - EN - 10 / 2012

Tech Library http://engine.od.ua

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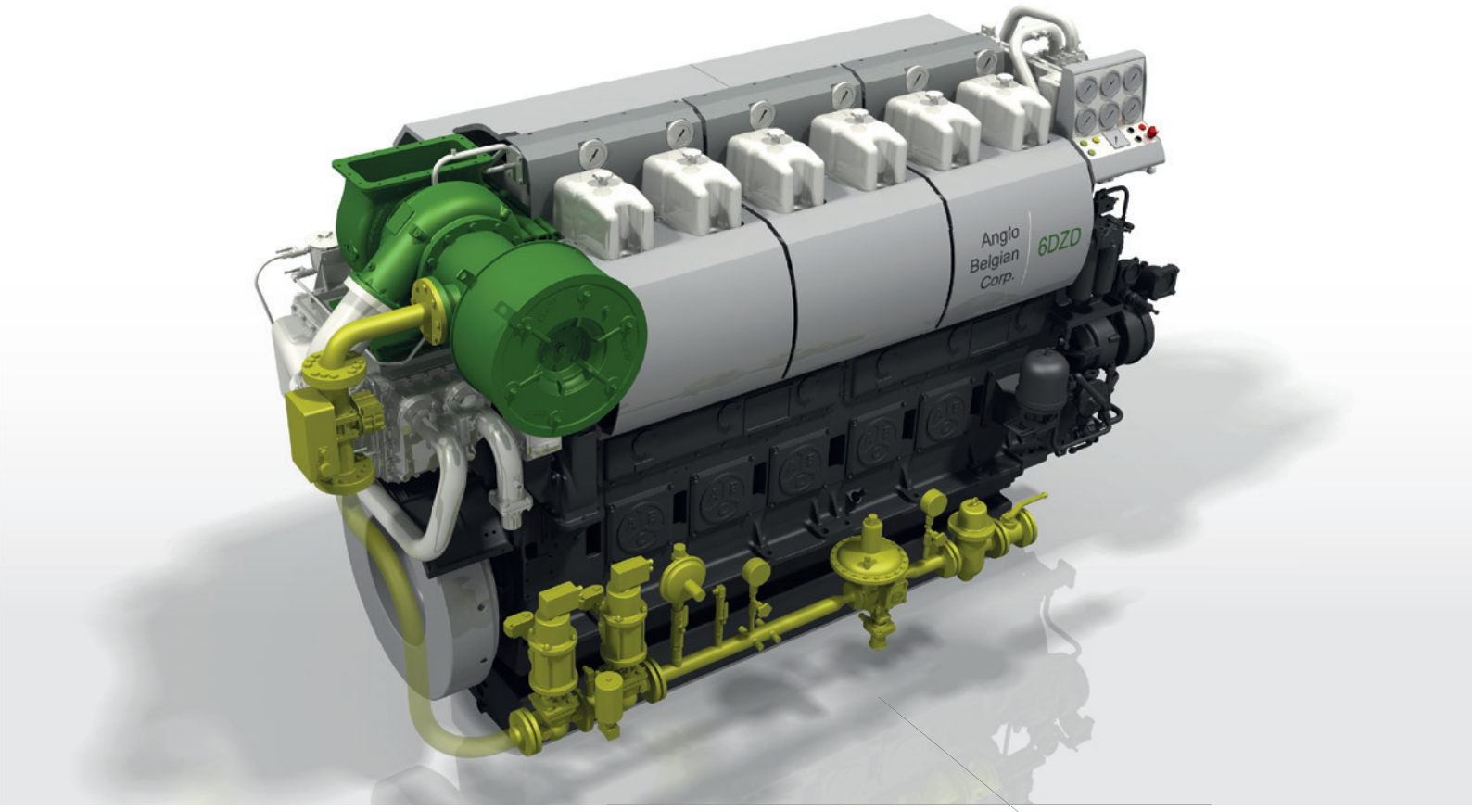

Engine type

Dual Fuel DZD / (V)DZD

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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

(V)DZD: Medium speed (V)DZ engine

» Turbocharged & intercooled

» 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: $\eta_G = 0{,}95$ → Power factor: $\cos \varphi = 0{,}8$

Natural gas with Methane Index = 73 → Lower Calorific Value gas = 39.000 kJ/Nm³ → 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)

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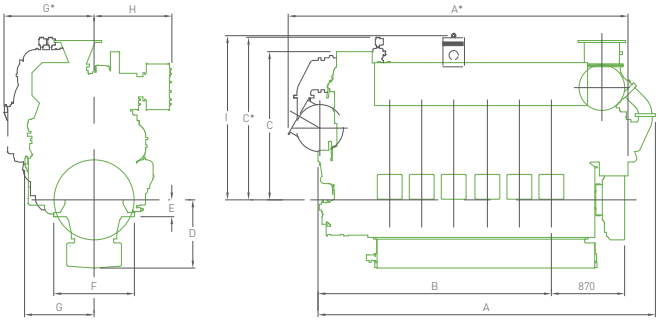
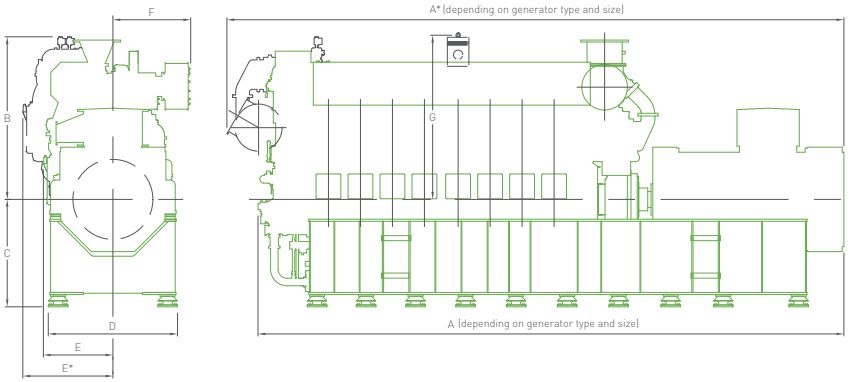


6/8DZD engine

* Turbocharger at free end side ** Flywheel, vibration damper and coolers are included

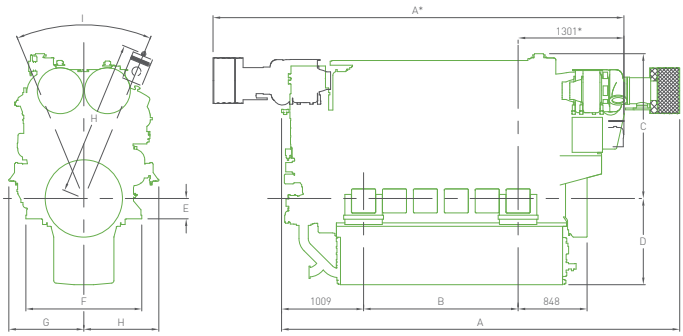
	A (mm)	A* (mm)	B (mm)	C (mm)	C* (mm)	D (mm) (Shallow)	D (mm) (Deep)	E (mm)	F (mm)	G (mm)	G* (mm)	H (mm)	I (mm)	Dry mass** (kg)
6DZD	4007	4036	2771	1761	1931	508/650	710/810	200	958	826	1070	924	1950	10720
8DZD	4767	4796	3531	1761	1931	508/650	710/810	200	958	826	1070	924	1950	14005



6/8DZD genset

* Turbocharger at free end side ** Genset total mass depending on generator type and size

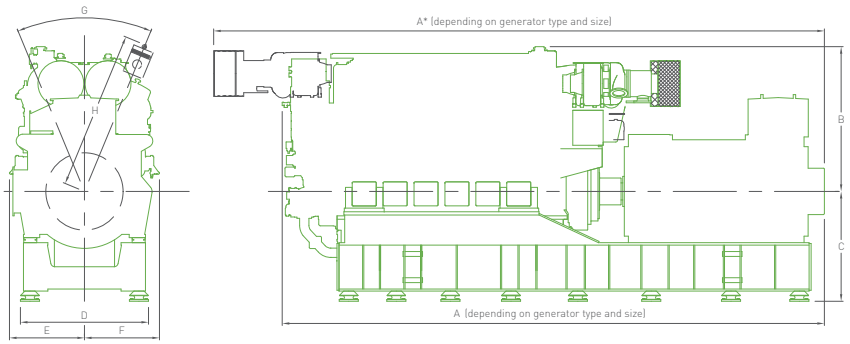
	A (mm)	A* (mm)	B (mm)	C (mm)	D (mm)	E (mm)	E* (mm)	F (mm)	G (mm)	Dry mass** (kg)
6DZD	6037	6406	1931	1276	1535	826	1070	924	1950	22200
8DZD	6959	7328	1931	1276	1535	826	1070	924	1950	26600



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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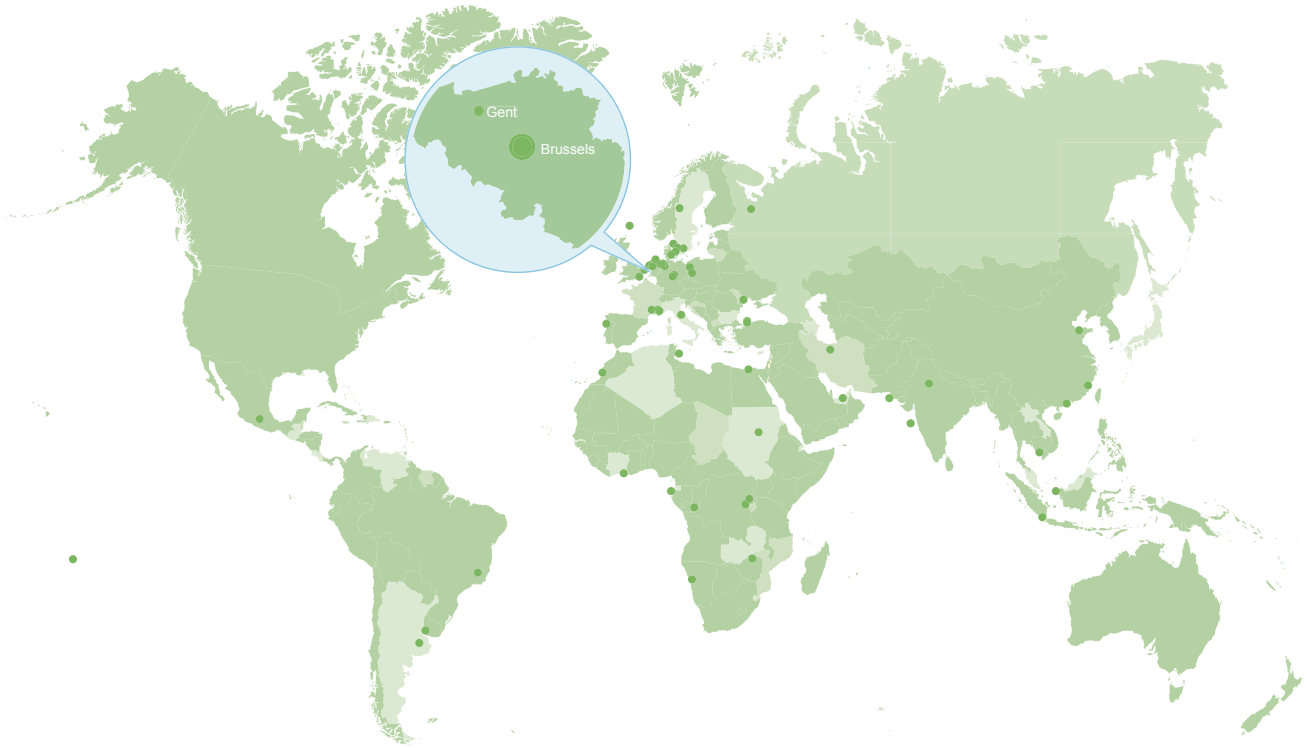
Service- and sales support worldwide



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To find out more detailed information about our service and sales support, please visit our website **www.abcdiesel.be**

Contact details

Anglo Belgian Corporation
Wiedauwkaai 43
9000 Gent (Belgium)

T +32 (0)9 267 00 00
F +32 (0)9 267 00 67
E info@abcdiesel.be

www.abcdiesel.be
Member of the **Ogepar group**

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DATASHEET DZD / (V)DZD - EN - 03 / 2013

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