



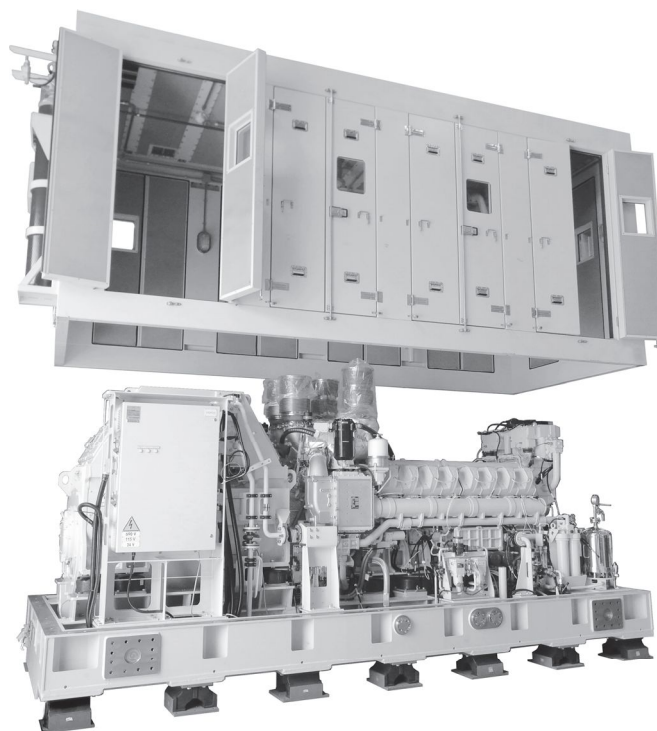
Isotta Fraschini Motori
a FINCANTIERI company

the added value to your project

ENGINE MODEL VL 1716 C2 ME	
TECHNICAL DATA	
No. Cylinder & Arrangement	16V - 90°
Bore/Stroke	170 x 185 mm
Total Displacement	67,2 l
Compression ratio	13,2
Idle speed	900 rpm
Emissions compliance	IMO MARPOL Tier II EPA Tier II Without After Treatment System

AMBIENT REFERENCE CONDITIONS	
According to Marine Classification Societies requirements (ISO 3046/1 for unrestricted navigation)	
Ambient temperature	45° C
Sea water temperature	32° C
Barometric pressure	1000 mbar
Relative humidity	60%
Rated power available without any derating up to:	
Ambient temperature	55° C
Sea water temperature	36° C
Relative humidity	100%

VL 1716 C2 ME MARINE DIESEL ENGINE GENERATOR



VL 1716 C2 ME

4-Stroke diesel engine with Bosch High Pressure Common Rail fuel injection system.

Single modular cylinder head with 4 valves to optimize combustion and reduce fuel consumption and pollutant emissions, in full compliance with the most stringent regulations in force.

Supercharging system optimized for an efficient performance provision in all operating conditions, even in extreme environmental conditions. Low level of stress to increase overall reliability.

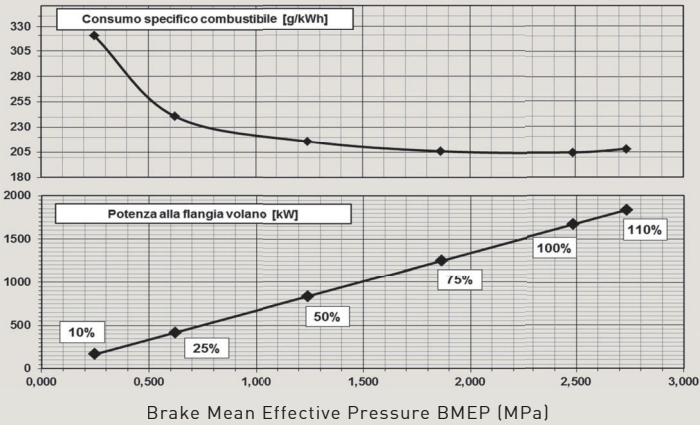
Engine with high power to weight ratio. On Request can be tailor made to Military Specifications.

VL 1716 C2 ME 2							
RATINGS @ 1200 RPM-60 HZ							
MECHANICAL OUTPUT				ELECTRICAL OUTPUT			
CONTINUOUS		STAND-BY		CONTINUOUS		STAND-BY	
kWm bkW	P.M.E. B.M.E.P. [bar]	kWm bkW	P.M.E. B.M.E.P. [bar]	kWe ekW	kVA kVA	kWe ekW	kVA kVA
1670	24,9	1840	27,3	1600	2000	1760	2200
VL 1716 C2 ME 5							
RATINGS @ 1500 RPM-50 HZ							
MECHANICAL OUTPUT				ELECTRICAL OUTPUT			
CONTINUOUS		STAND-BY		CONTINUOUS		STAND-BY	
kWm bkW	P.M.E. B.M.E.P. [bar]	kWm bkW	P.M.E. B.M.E.P. [bar]	kWe ekW	kVA kVA	kWe ekW	kVA kVA
1860	22,1	2046	24,4	1800	2250	1980	2475
VL 1716 C2 ME 8							
RATINGS @ 1800 RPM-60 HZ							
MECHANICAL OUTPUT				ELECTRICAL OUTPUT			
CONTINUOUS		STAND-BY		CONTINUOUS		STAND-BY	
kWm bkW	P.M.E. B.M.E.P. [bar]	kWm bkW	P.M.E. B.M.E.P. [bar]	kWe ekW	kVA kVA	kWe ekW	kVA kVA
2190	21,7	2410	23,9	2100	2625	2310	2890

PERFORMANCE DIAGRAM

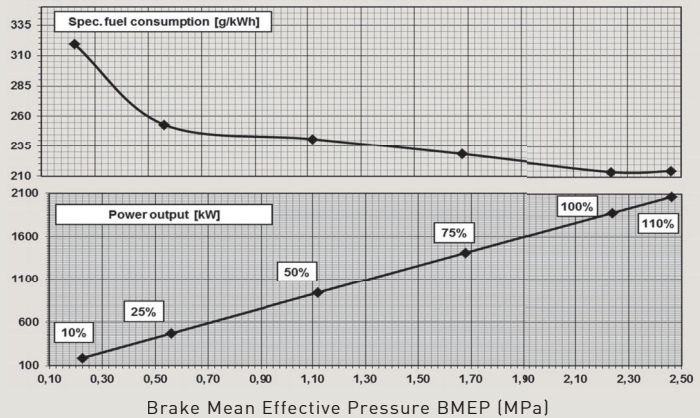
ENGINE VL 1716 C2 ME2

Potenza massima continuativa : 1670 kW @ 1200 min-1 [cod. ISO ICXN]
 Potenza massima intermittente : 1837 kW @ 1200 min-1 [cod. ISO IOFN]
 Condizioni ambientali di riferimento secondo ISO 3046-1 :
 - temperatura aria aspirata 25 °C - temperatura acqua bruta 25 °C
 - pressione ambiente 100 kPa - umidità relativa 30 %



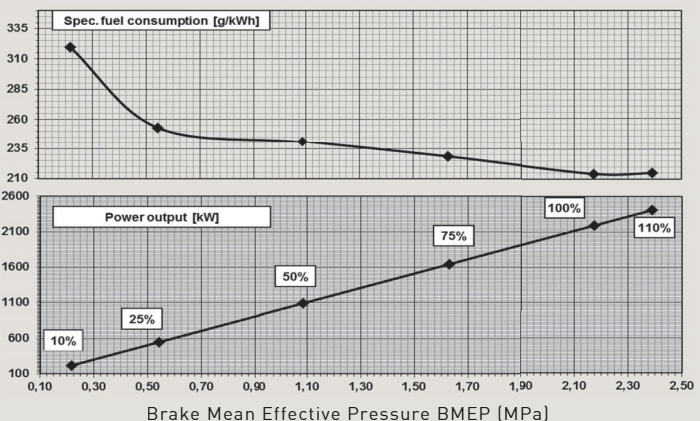
ENGINE VL 1716 C2 ME5

ICXN : 1880 kW @ 1500 rpm
 IOFN : 2068 kW @ 1500 rpm
 Ambient reference condition according to ISO 3046-1 :
 - Intake air temperature 45 °C - Raw water temperature 32 °C
 - Intake air depression : 25 mbar - Exhaust backpressure : 60mbar

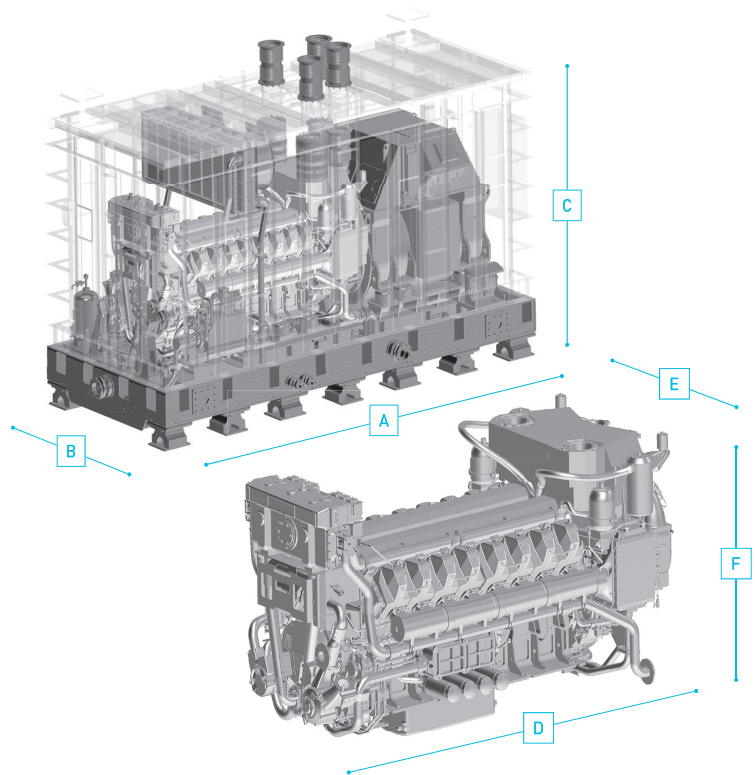


ENGINE VL 1716 C2 ME8

ICXN : 2190 kW @ 1800 rpm
 IOFN : 2409 kW @ 1800 rpm
 Ambient reference condition according to ISO 3046-1 :
 - Intake air temperature 45 °C - Raw water temperature 32 °C
 - Intake air depression : 25 mbar - Exhaust backpressure : 60mbar



VL 1716 C2 ME MARINE DIESEL ENGINE GENERATOR



DIMENSIONS & WEIGHTS

A	DGS Length	6000 mm	F	Engine Height	2000 mm
B	DGS Width	2500 mm	G	DGS Dry mass Without enclosure	30.440 Kg
C	DGS Height	3150 mm	Weight and dimensions can vary according to application		
D	Engine Length	3540 mm	H	Engine Dry mass	8650 Kg
E	Engine Width	1760 mm	I	Flywheel and Housing size	SAE 21 SAE 00

BASIC DGS BUILD STANDARD

- Engine cooling circuits with engine-driven centrifugal pumps (sea water pump of self-priming type)
- Forced engine lubrication by engine-driven gear type pump, plate-type oil/fresh water cooler unit, cartridge type oil filter unit
- Fuel system complete with BOSCH High Pressure pump with feeding pump
- Duplex fuel filter, cartridge replaceable whilst running
- Electric system provided with terminal box
- Pneumatic starting motor
- Exhaust gas bellows
- Intake air bellows
- Flexible mountings
- Electric pre-lubrication pump
- Shielded high pressure injection pipes
- Torsional vibration damper
- Local Control Panel (LCP)
- Standard tools
- Operating and maintenance manual (commercial type)
- Illustrated spare parts catalogue (commercial type)

OPTIONAL ITEMS

- Overspeed engine stopping device
- Marine painting
- Fresh water pre-heating system with thermostat system
- Lube oil pre-heating system with thermostat system
- Remote Panel-Dashboard
- Condition based maintenance system
- Classification society test certificate
- Torsional vibration analysis calculation (TVC)
- Long storage preservation treatment
- Electric starting motor with battery pack
- Intake air dry type filters
- After Treatment System
- Noise Reduction Enclosure

PRESSURE SENSORS:

- Charge air pressure
- Lube oil pressure
- Fresh water pressure
- Sea water pressure
- Fuel oil pressure

TEMPERATURE SENSORS:

- Charge air temperature
- Fresh water temperature
- Lube oil temperature
- Fuel oil temperature
- Exhaust gas temperature

NOTE

Engines Power in reference to ISO 3046-1
 All technical data are subject to variation without notice.
 To be used only as indicative.
 To be confirmed with a purchase order.

