



MARINE DATA SHEET

C16 1000

735 kW

**Our efficiency.
Your edge.**

SPECIFICATIONS

Thermodynamic cycle	Diesel 4 stroke
Air handling	TCA
Cylinders arrangement	6L
Bore x Stroke	141 x 170 mm
Total displacement	15.9 liters
Valves per cylinder	4
Cooling System	Liquid
Direction of Rotation (viewed facing flywheel)	CCW (Counterclockwise)
Engine management	By ECU (Electronic Control Unit)
Injection System	CR

STANDARD CONFIGURATION

Flywheel housing	SAE 1
Flywheel size	14"
Air filter	Rear side
Turbocharger	2 Waste Gate Single Stage (water cooled) Turbo with Aftercooler (TCA)
Cooling type	Heat Exchanger Tube Type / Keel Cooling
Exhaust gas water mixer - Exhaust cooled elbow	-
Water charge tank	Included
Fuel filter	1 Rear Side
Fuel prefilter	Included (loose)
Fuel pump	Included
Oil filter	2 Left Side
Oil sump	Aluminium
Oil vapours blowby circuit	Rear
Oil heat exchanger	Included
Oil filler	By cylinder head cover
Starter	24 V - 5.5 kW
Alternator	28 V - 90 A
Engine stop device	By ECU (Electronic Control Unit)
Wiring harness	With negative to ground connection
Painting color	White "ICE"

Legend

Arrangement

L In line
V 90° "V" configuration

Air Handling

TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Turbocharger

WG Wastegate
VGT Variable Geometry Turbocharger
TST Twin Stage Turbocharger

Exhaust System

EGR Exhaust Gas Recirculation
SCR Selective Catalytic Reduction

Injection System

M Mechanical
CR Common Rail
EUI Electronic Unit Injector
MPI Multi Point Injection

WEIGHT AND DIMENSIONS*

Dimensions	(L**xWxH) 1.465 x 1.136 x 1.160 mm
Dry Weight	1640 Kg

* Weight and dimensions can be changed according to engine options and configurations

** Length at flywheel

ELECTRICAL SYSTEM

Voltage	24 V
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NOT INCLUDED IN STANDARD CONFIGURATION

Battery - minimum capacity recommended	220 Ah
Battery - minimum cold cranking capacity recommended	900 Ah

RATING TYPE		A2/B1	B	C ¹				
Maximum power [*]	kW(HP)	735(1000)	662(900)	599(815)	551(750)	478(650)	599(815)	551(750)
At speed	rpm	2300	2300	2300	2300	2300	2000	2000
Maximum no load governed speed at max rating	rpm	2500	2500	2500	2500	2500	2500	2500
Minimum idling speed	rpm	600	600	600	600	600	600	600
Mean piston speed at rated speed	m/s	13.03	13.03	13.03	13.03	13.03	11,33	11,33
BMEP at max power	bar	24.1	21.7	19.7	18.1	15.7	22.6	20.8
Specific fuel consumption (rated speed)	g/kWh@rpm	205@1700	203@1700	203@1700	200@1600	208@1600	201@1700	203@1600
Oil consumption at max rating	(% of fuel cons.)	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Minimum starting temperature without auxiliaries	°C	- 10°	- 10°	- 10°	- 10°	- 10°	- 10°	- 10°
Oil and oil filter maintenance interval for replacement	hours	600	600	600	600	600	600	600

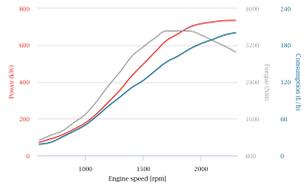
* Net Power at flywheel according to ISO 8665, after 50 hours running, Fuel Diesel EN 590.
Power tolerance 5%. Fuel consumption tolerance ±2%

Rating

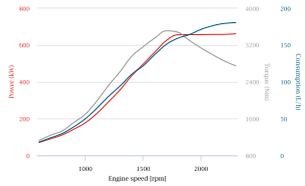
(1)	Keel-cooled versions are also available.	B	Light duty. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum usage 1500 hours per year.
A1	High performance crafts. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm <90% of rated speed setting. Maximum usage 300 hours per year.	C	Medium duty. Full throttle operation <25% of use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum usage 3000 hours per year.
A2/B1	Pleasure/commercial vessels. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm <90% of rated speed setting. Maximum usage 1000 hours per year.	D	Heavy duty. Maximum rating utilization up to 100% of use period, for unlimited hours per year.

POWER & TORQUE

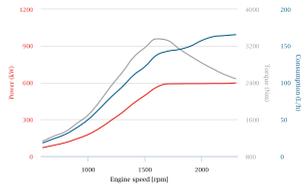
C16 1000
 Rating A2/B1 - 735 kW @2300rpm
 Emission Standards:
 - IMO MARPOL Tier 2
 - RCD Stage 2
 - EPA Tier 3 Recreational
 - EPA Tier 3 Commercial
 Temporary derogation issued by EPA under
 1042.145(k)
 - China GB II



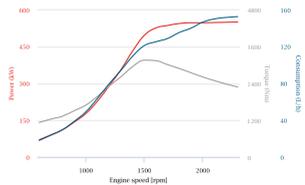
C16 1000
 Rating B - 662 kW @2300rpm
 Emission Standards:
 - IMO MARPOL Tier 2
 - RCD Stage 2
 - EPA Tier 3 Recreational
 - China GB II



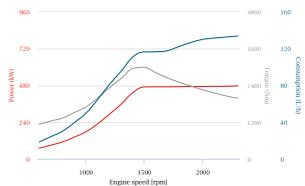
C16 1000
 Rating C - 599 kW @2300rpm
 Emission Standards:
 - IMO MARPOL Tier 2
 - RCD Stage 2
 - EPA Tier 3 Recreational/Commercial
 - China GB II



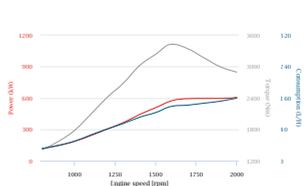
C16 1000
 Rating C - 551 kW @2300rpm
 Emission Standards:
 - IMO MARPOL Tier 2
 - RCD Stage 2
 - EPA Tier 3 Commercial
 - China GB II



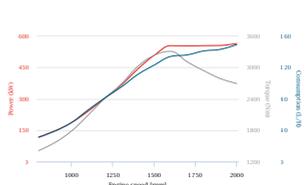
C16 1000
 Rating C - 478 kW @2300rpm
 Emission Standards:
 - IMO MARPOL Tier 2
 - RCD Stage 2
 - EPA Tier 3 Commercial
 - China GB II



C16 1000
 Rating C - 599kW@2000rpm
 Emission Standards:
 - IMO MARPOL Tier 2
 - EPA Tier 3 Commercial



C16 1000
 Rating C - 551kW@2000rpm
 Emission Standards:
 - IMO MARPOL Tier 2
 - EPA Tier 3 Commercial





Rating A2/B1:	735 kW (1000 HP) @ 2300 rpm
Rating B:	662 kW (900 HP) @ 2300 rpm
Rating C:	599 kW (815 HP) @ 2300 rpm
Rating C:	551 kW (750 HP) @ 2300 rpm
Rating C:	478 kW (650 HP) @ 2300 rpm
Rating C:	599kW(815HP) @2000rpm
Rating C:	551 kW(750HP) @2000rpm



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