



MARINE DATA SHEET

C16 600

442 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
Engine management	by ECU (Electronic Control Unit)
Injection System	CR

STANDARD CONFIGURATION

Flywheel housing	SAE 1
Flywheel size	14"
Air filter	rear side
Turbocharger	Water cooled Fixed Geometry Turbo + Aftercooler (TCA)
Heat exchanger	tube type
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 1.000 x 1.160 mm
Dry Weight	1.570 Kg

* Dimensions can be changed according to engine options

** 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

		D	D	D
Maximum power [*]	kW(HP)	442 (600)	404 (550)	368 (500)
At speed	rpm	1800	1800	1800
Maximum no load governed speed at max rating	rpm	1970	1970	1970
Minimum idling speed	rpm	600	600	600
Mean piston speed at rated speed	m/s	10.2	10.2	10.2
BMEP at max power	bar	18.5	16.9	15.4
Specific fuel consumption at full load (best value)	g/kWh @ rpm	207	208	209
Oil consumption at max rating	(% of fuel cons.)	< 0.2	< 0.2	< 0.2
Oil and oil filter maintenance interval for replacement	hours	600	600	600

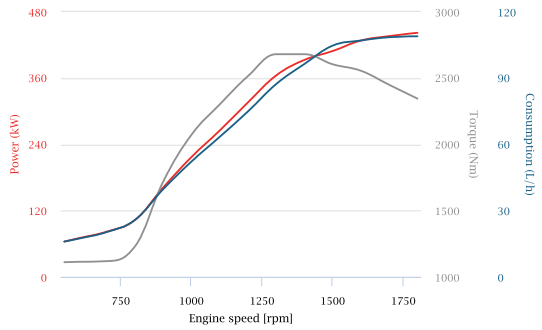
* Net Power at flywheel according to ISO 3046/1, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%. Fuel consumption tolerance $\pm 2\%$

Rating

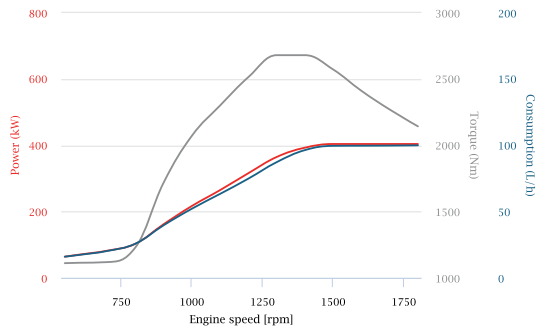
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|---|---|
| <p>A1 High performance crafts. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 300 hours per year.</p> <p>A2=B1 Pleasure/commercial vessels. Full throttle operation restricted within 10% of total use period Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 1000 hours per year.</p> | <p>B Light duty. Full throttle operation restricted within 10% of total use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 1500 hours per year.</p> <p>C Medium duty. Full throttle operation <25% of use period. Cruising speed at engine rpm <90% of rated speed setting. Maximum useage 3000 hours per year.</p> <p>D Heavy duty. Maximum rating utilization up to 100% of use period, for unlimited hours per year.</p> |
|---|---|

POWER & TORQUE

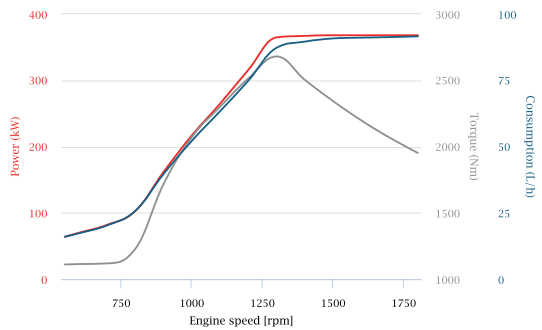
IMO MARPOL Tier2
USA-EPA Tier3
C16 600 442 kW - Class D

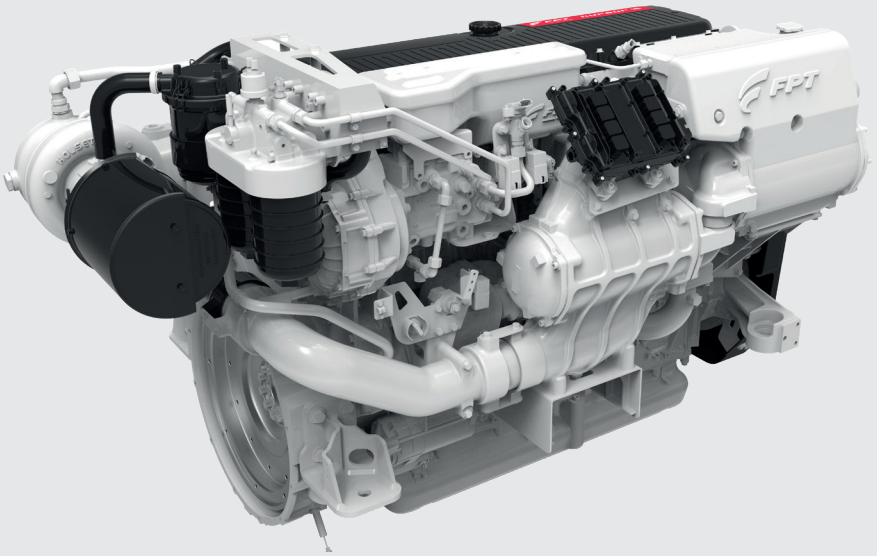


IMO MARPOL Tier2
C16 600 404 kW - Class D



IMO MARPOL Tier2
USA-EPA Tier3
C16 600 368 kW - Class D





Rating D: 442 kW (600 HP) @ 1800 rpm
Rating D: 404 kW (550 HP) @ 1800 rpm
Rating D: 368 kW (500 HP) @ 1800 rpm



FPT Industrial S.p.A.

Via Puglia 15, 10156
Torino, Italy

fptindustrial.com

[marketing@
fptindustrial.com](mailto:marketing@fptindustrial.com)

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