

# C13 500

## C13 ENT M50

6 CYLINDERS IN LINE - DIESEL CYCLE

382 kW (520 HP) @ 2000 rpm (C)

368 kW (500 HP) @ 2000 rpm (D)

### Specifications

Thermodynamic cycle		Diesel 4 stroke
Air intake		TAA
Arrangement		6L
Bore x Stroke	mm	135 x 150
Total displacement	l	12.88
Valves per cylinder	n.	4
Cooling system		liquid
Direction of rotation (viewed facing flywheel)		CCW
Engine management		electrical
Injection system		Electronic Unit Injection (E.U.I.)

### Electrical system

Voltage	V	24
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### Standard configuration

Flywheel housing	type	SAE 1
Flywheel size	inch	14
Air filter		rear side
Turbocharger		Fixed Geometry (water cooled) Turbo with Aftercooler (TAA)
Heat exchanger		tube type
Exhaust gas - water mixer		-
Water charge tank		included
Fuel filter	n.	1 - right side
Fuel prefilter		1 - (supplied loose)
Fuel pump		gear driven
Oil filter	n.	2 - left side
Oil sump		aluminium
Oil vapours blow-by circuit		included
Oil heat exchanger		included
Oil filler		on timing cover
Starting motor		24V - 5.5kW
Alternator		24V - 90A
Engine stop device		by electronic central unit
Wiring harness		with EDC (Electronic Diesel Control)
Painting	color	white "ICE"

### Not included in the standard configuration

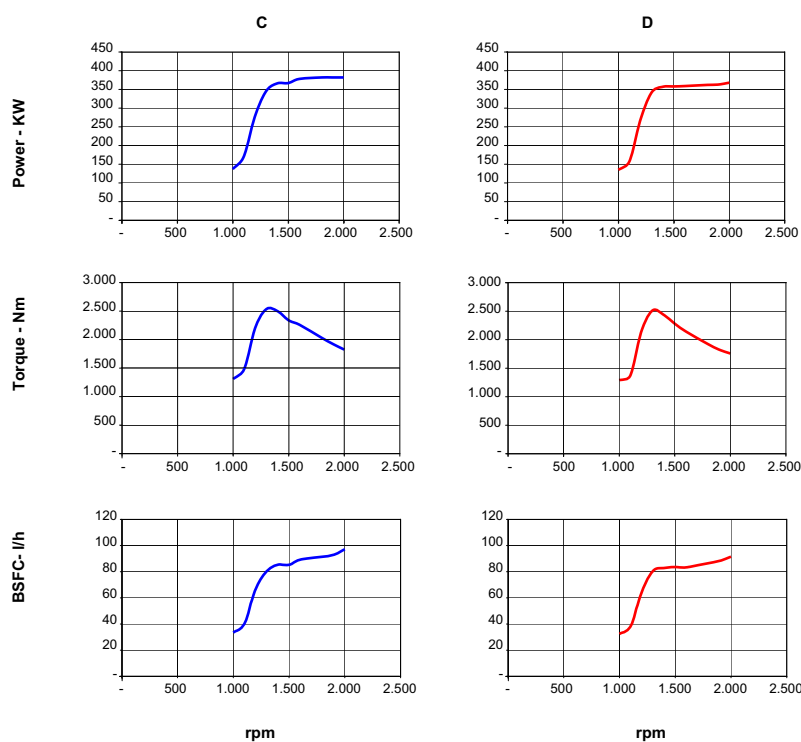
Battery - minimum capacity recommended		2 x 180 Ah
Battery - minimum cold cranking capacity recommended		1200 A

FPT OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE, CONTACT THE FPT SALES NETWORK.

Rating type		C	D
Maximum power [*]	kW(HP)	382 (520)	368 (500)
At speed	rpm	2000	2000
Maximum no load governed speed at max rating	rpm	2170	2170
Minimum idling speed	rpm	600	600
Mean piston speed at rated speed	m/s	10	10
BMEP at max power	kg/cm <sup>2</sup>	25.2	25.0
Specific fuel consumption at full load (best value)	g/kWh @ rpm	195 @ 1400	
Oil consumption at max rating	(% of fuel cons.)	≤ 0.2	
Minimum starting temperature without auxiliaries	°C	-15°	
Oil and oil filter maintenance interval for replacement	hours	600	

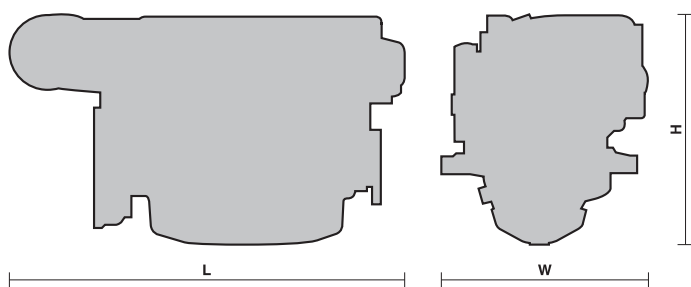
\* **Net Power** at flywheel according to ISO 3046/1, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

**Test conditions:** ISO 3046/1, 25 °C air temperature, 100 kPa atmospheric pressure, 30 % relative humidity.



**C = Medium duty.**  
 Full throttle operation < 25% of use period.  
 Crushing speed at engine rpm < 90% of rated speed setting. - Maximum usage 3000 hours per year.

**D = Heavy duty.**  
 Maximum rating utilisation up to 100% of use period, for unlimited hours per year.



**L = 1870 mm.**  
**W = 992 mm.**  
**H = 1040 mm.**  
**Dry weight (without marine gear) = 1345 kg.**

Publication P3P0&C002E - 09.10  
 Specifications subject to change without notice.  
 Illustrations may include optional equipment.