

# N67 450

## N67 ENT M45

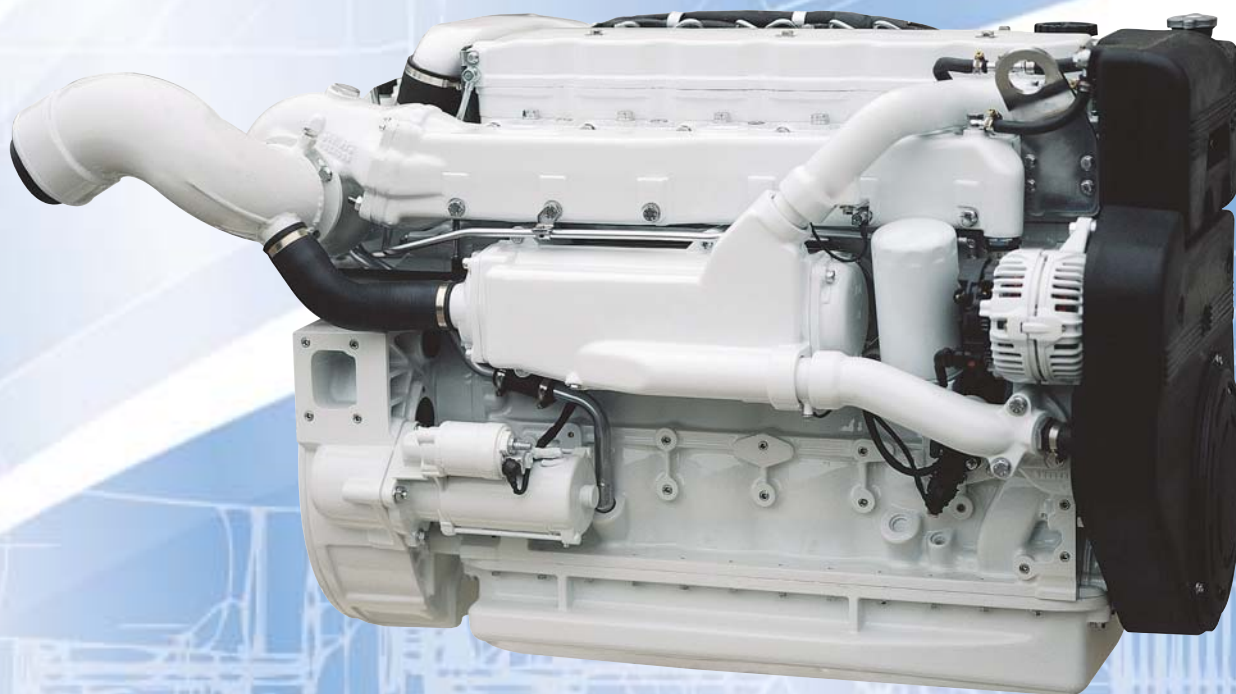
6 CYLINDERS IN LINE - DIESEL CYCLE

331 kW (450 HP) @ 3000 rpm (A1)

309 kW (420 HP) @ 3000 rpm (A2)

272 kW (370 HP) @ 3000 rpm (B)

258 kW (350 HP) @ 3000 rpm (C)



# MARINE APPLICATIONS

## N67 ENT M45 FOR MARINE APPLICATIONS

Thermodynamic cycle		Diesel 4 stroke
Air intake		TAA
Arrangement		6L
Bore x Stroke	mm (in)	104 X 132 (4.09 x 5.20)
Total displacement	l	6.7
Valves per cylinder		4
Cooling		liquid
Direction of rotation (viewed facing flywheel)		CCW
Engine management		electrical
Injection system		Common Rail

### Electrical system

Voltage	V	12
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### Standard configuration

Flywheel housing	type	SAE 3
Flywheel size	inch	11 1/2
Air filter		rear side
Turbocharger		cooled and with Waste-gate
Heat exchanger		tube type
Exhaust cooled elbow		—
Water charge tank		included
Fuel filter	n°	1 - left side
Fuel prefilter		included (loose)
Fuel pump		included
Oil filter	n°	1 - right side
Oil sump		aluminium
Oil vapours blow-by circuit		rear
Oil heat exchanger		built in the crankcase
Oil filler		on timing cover frontward
Starting motor		12 V - 3 kW
Alternator		12 V - 90 A
Engine stop device		by electronic central unit
Wiring harness		with EDC (Electronic Diesel Control)
Painting	colour	white "ICE"

### Not included in the standard configuration

Battery - minimum capacity recommended	120 Ah
Battery - minimum cold cranking capacity recommended	900 A

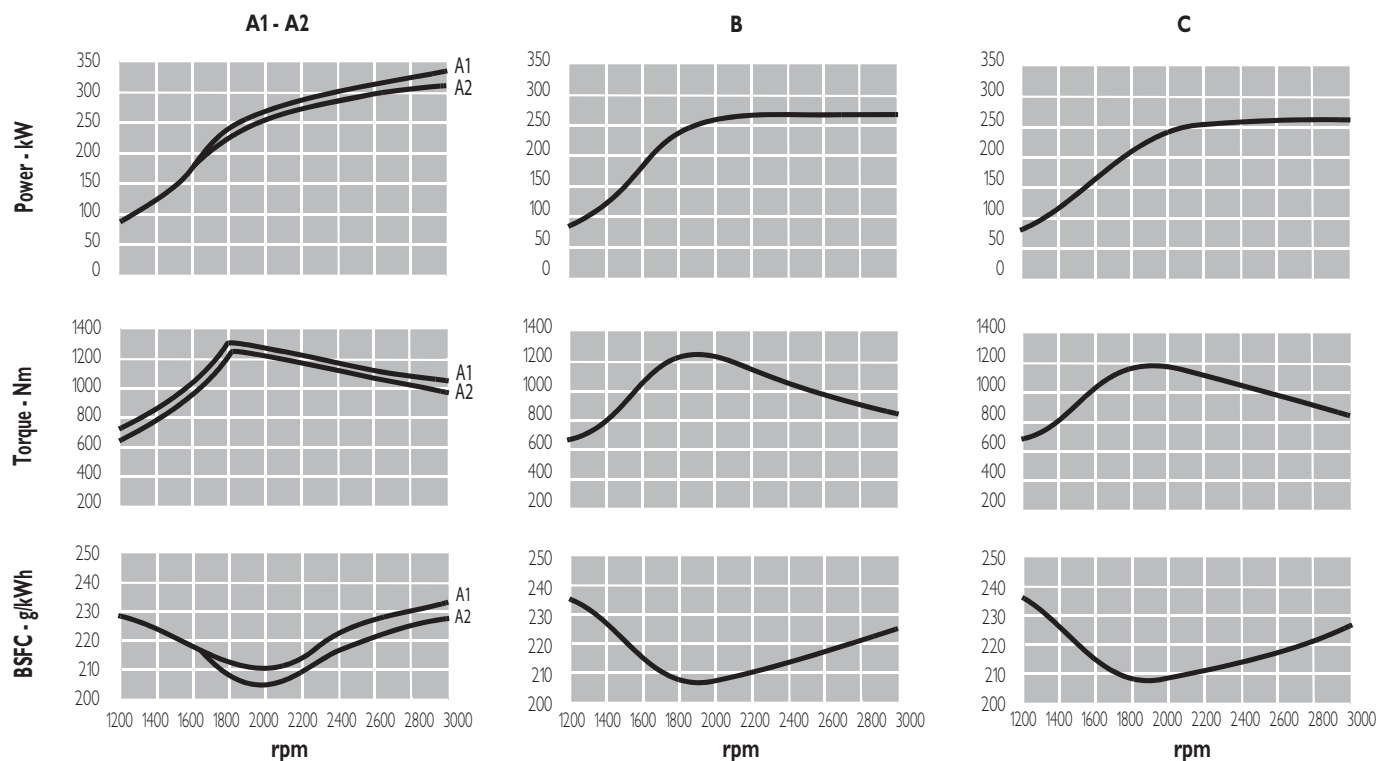
**FPT OFFERS THE WIDEST AVAILABILITY OF ENGINE BUILD OPTIONS TO CUSTOMER SPECIFIC REQUIREMENTS WITHIN THE ENGINE SUPPLY. TO FIND OUT MORE ABOUT THE CONFIGURATIONS AND ACCESSORIES WHICH ARE AVAILABLE, CONTACT THE FPT SALES NETWORK.**

## N67 ENT M45 FOR MARINE APPLICATIONS

Rating type		A1	A2	B	C
Maximum power *	kW(HP)	331 (450)	309 (420)	272 (370)	258 (350)
At speed	rpm	3000	3000	3000	3000
Maximum no load governed speed at max rating	rpm	3150	3150	3150	3150
Minimum idling speed	rpm	600	600	600	600
Mean piston speed at rated speed	m/s (ft/s)	13.2 (43.3)	13.2 (43.3)	13.2 (43.3)	13.2 (43.3)
BMEP at max torque	(psi) kg/cm <sup>2</sup>	(358.4) 25.2	(342.8) 24.1	(334.2) 23.5	(327.1) 23.0
Specific fuel consumption at full load (best value)	g/kWh(lb/Bhp-hr) @ rpm	210(0.345) @ 1800			
Oil consumption at max rating	(% of fuel consumption)	≤ 0.2			
Minimum starting temperature without auxiliaries	°C (°F)	-10 (14)			
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.



**A1** = High performance crafts.

**A2** = 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:

- 300 hours per year (A1 service)

- 1000 hours per year (A2 service).

**B** = Light duty.

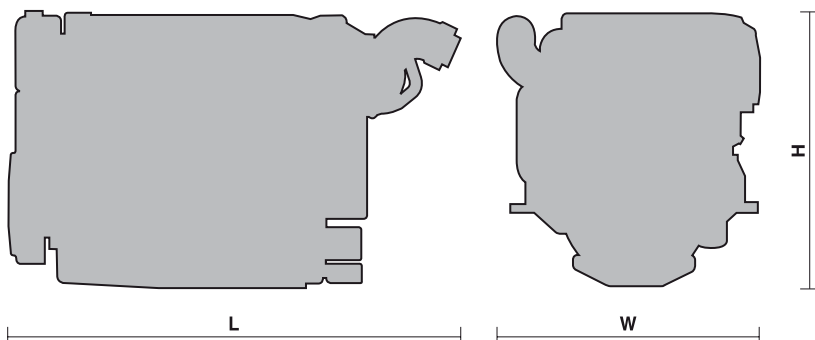
Full throttle operation restricted within 10% of total use period.

Cruising speed at engine rpm < 90% of rated speed setting - Maximum usage 1500 hours per year.

**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.



**L** = 1333 mm (52 in)

**W** = 805 mm (32 in)

**H** = 774 mm (30 in)

**Dry weight** (without marine gear) = 600 kg (1323 lbs)

## ENGINE BENEFITS

- **PERFORMANCE:** Engine ratings, fuel consumption and emissions are optimized with electronic engine management and Common Rail fuel injection system; high specific power and light weight for high power to weight ratio; compact design for low volume high power ratio; high torque at low rpm.
- **SERVICEABILITY:** Electronic control, protection and diagnostics for the engine systems; World wide dealer and service network. Engine designed for quick service and easy maintenance.
- **RELIABILITY:** Functional design; long engine life.
- **COST EFFECTIVENESS:** Fuel consumption reduction; maintenance and overhaul interval extensions.
- **ENVIRONMENTALLY FRIENDLY:** Low noise and exhaust emissions, minimal vibrations.
- **CUSTOMER ORIENTATION:** Range of propulsion and emission certifications; assortment of accessories available for a variety of uses.

### FIAT POWERTRAIN TECHNOLOGIES

Via Puglia, 15 - 10156 Torino

### FIAT POWERTRAIN TECHNOLOGIES

Viale dell'Industria, 15/17 - 20010 Pregnana Milanese (MI)

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