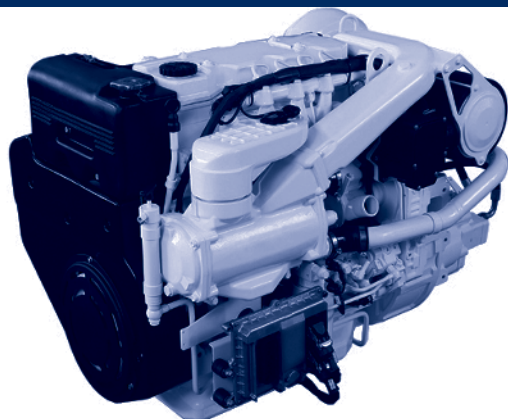


# N-Series Diesels



**N67-280 - 280 HP at 2800 RPM**  
**N60-400E - 370 HP at 3000 RPM**  
**N67-450E - 420 HP at 3000 RPM**  
**'FPT by Lancing Marine', based upon a proven base engine by one of the World's leading engine manufacturers. For UK pleasure boat use only.**

Engine specifications may vary as improvements are introduced  
 Specifications are subject to change without notice and are not for engineering purposes  
 See the Lancing Marine Price Book for Complete Installation Kit  
 Lancing Marine reserve the right to alter specifications without notice

## Design Features

### Engine

Low noise, high strength, rugged bottom end with 7 main bearings, piston cooling, thick wall parent bore. Large diameter valves to improve volumetric efficiency. High compression ratio for faster starts and warm ups with reduced white smoke.

### Fuel system

High nozzle opening pressures for high fuel efficiency and low smoke. Self air purge fuel pump, automatic excess fuel and timing retard for excellent cold starting. Full electronic control on 400E and 450E.

### Reliability

The 'FPT by Lancing Marine' range is derived from a partner collaboration of major manufacturers. Inspired from a raceboat pedigree, they are worldwide proven.

### Serviceability

Piston jet oil cooling for extended life. Long filter and oil change intervals (600 hours pleasure). Self adjusting poly vee drive belt for alternator and fresh water pump for low slippage with minimal power loss and longer bearing life.

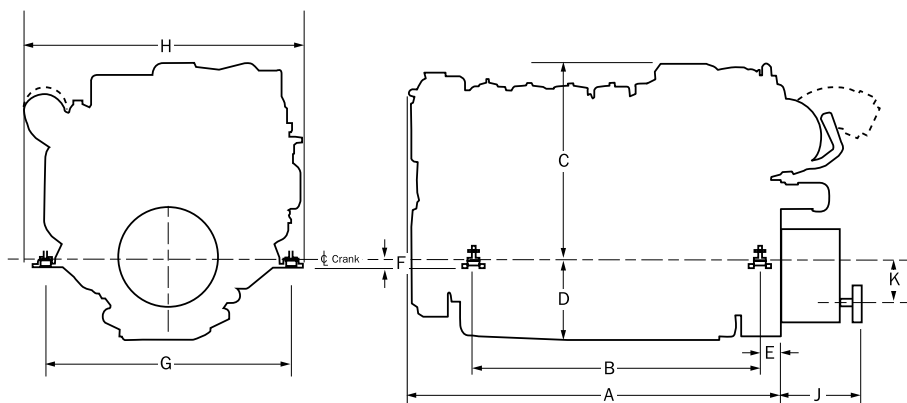
## Variation to standard specification (see inside front cover) and extra optional items for this engine type

### Additional standard items

Electric run/stop control  
 Full power dynamometer test  
 Electronic fuel injection on 'E' models  
 Oil sump drain pump

### Optional items

Drive belt guard  
 Power take-off pulley or shaft  
 Keel cooling and dry exhaust in lieu of heat exchanger system



Dimensions J & K can be found in the gearbox specification pages 9 - 15

### Dimensions in mm

	N67-280	N60-400E	N67-450E
A	1071	1071	1089
B	888	889	895
C	585	542	552
D	236	236	236
E	60	49	55
F	115	115	115
G	610	610	610
H	710	739	724

## Detailed specification

Engine model	N67-280	N60-400E	N67-450E	Engine model	N67-280	N60-400E	N67-450E
Power Maximum H.P.	280	370	420	Max Fuel Flow required, lit/hour (includes return)	140	250	250
RPM Maximum	2800	3000	3000	Fuel feed diameter, mm	9		
Torque Maximum Nm	920	1030	1270	Fuel return diameter, mm	9		
Cubic capacity, litres	6.7	6.0	6.7	Exhaust diameter, ins (mm)	5 (127)		
Bore, mm	104	102	104	Water intake diameter, mm	45		
Stroke, mm	132	120	132	Coolant capacity, lit	24.5		
Aspiration	Turbocharged/Intercooled			Oil capacity, lit	16.5		
Engine rotation	Anti-clockwise viewed from rear			Weight, Engine, Kg	605	595	600
Compression ratio	17.5:1			Guide to sterngear			
Electrics 12v earth return Alt, Amps	90			Max. Prop. dia. for gear ratio 1.5:1 ins	23"	24"	24"
Minimum battery size	1X180 AH 12 volt			Min. Shaft Dia. St. St. mm	45	50	50
Minimum starter cable, length=size	0.6M = 70mm <sup>2</sup> /1.2M = 95mm <sup>2</sup>			Speed range for this ratio (knots)	24+	30+	30+
Engine operating angles				Max. Prop. dia. for gear ratio 2:1	28"	28"	28"
Engine front down (degrees)	0	0	0	Min. Shaft Dia. St. St. mm	50	55	55
Sideways (degrees)	23	22	22	Speed range for this ratio (knots)	17-30	24-33	25-35
Engine front up (degrees)	18	18	18				