FPT
POWERTRAIN TECHNOLOGIES

FPT INDUSTRIAL MARINE COMMERCIAL

Our efficiency.
Your edge.

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ABOUT FPT INDUSTRIAL

FPT Industrial is the Brand of CNH Industrial dedicated to the development, production, sale and assistance of powertrains for Marine, On Road, Off Road, and Power Generation applications.

The company employs over 8,000 people worldwide, within ten plants and seven R&D Centers. The FPT Industrial sales network consists of 73 dealers and more than 800 service centers around 100 countries. A wide product offering, including six engine ranges from 42 hp up to 1,000 hp, transmissions with maximum torque of 200 Nm up to 500 Nm, front and rear axles from 2 to 32 ton GAW (Gross Axle Weight). FPT Industrial offers the most complete Natural Gas engines line-up on the market for industrial applications, including engine ranges from 136 hp up to 460 hp. This extensive offer and a close focus on R&D activities make FPT Industrial a world leader in industrial powertrains.

We work for businesses serving other businesses, and we are committed to satisfy the requirements of both direct and final Customers.
We are proud to be an innovation-driven Company, that builds Customer advantage through continuous research and improvement, and creates value by leveraging this advantage.
Today FPT Industrial is one of the leading world players in engines, axles and transmissions for the Industrial sector, ranking among the first four manufacturers worldwide in the 2- to 20-liter Diesel engine segment.

THE WAVE OF INNOVATION

FPT Industrial's engines for pleasure and commercial boats stand out for superb quality, features and application versatility. They bring maximum and continuous specific power and torque at low revolutions. They achieve better efficiency in all sea conditions. They also boast an impressive durability.

A dramatic reduction of noise and vibrations combines power with sailing pleasure. Exhaust gas emissions have been cut down too, lowering environmental impact and complying with the most stringent legislation.
Our engineering experience has delivered a lightweight design, with low volume/power and weight/power ratios, for easier installation and superior performance.

Superior Technology & Outstanding Advantages

Performance
Maximum and continuous high specific power. High torque at low revs. Lightness (weight/power low ratios).

Flexibility
Compactness (volume/power low ratios). Full range of accessories available. Wide range of emission and propulsion certifications. Keel cooling versions availability.

Low Environmental Impact
Drastic reduction of exhaust emissions.
Low noise and vibrations.

Low Operating Costs
Longer maintenance intervals costs.
Longer overhaul intervals

Marine Emission Regulations

IMO

kW	HP	2017	2018	2019	2020	2021
>130	>174	Tier II (Tier III ECA areas only)				

The International Maritime Organization (IMO) regulates exhaust emissions on diesel engines above 130kW (174 hp). Engines used exclusively in emergency applications are exempt. IMO Tier III applies only when operating within a NOx Emission Control Area. The Tier III regulation is in effect for North America and US Caribbean Sea NOx ECA's for vessels built after January 1, 2016.

EU

kW	HP	2017	2018	2019	2020	2021
19-299	25-401	Stage IIIA		Stage V		
>299	>401	Stage IIIA			Stage V	
Pleasure		RCD 2				

The Nonroad Mobile Machinery Directive regulates exhaust emissions from diesel engines installed on inland waterway vessels operating in the EU. The RCReational Craft Directive regulates noise and exhaust emissions from propulsion engines installed on rCReational craft operating in the EU.

US EPA

kW	HP	2017	2018	2019	2020	2021
<600	<805	Tier 3				
≥600	≥805	Tier 4				

The United States Environmental Protection Agency (EPA) regulates exhaust emissions from diesel engines installed on US flagged/registered marine vessels.

Marine Rating Classification

Full load reference conditions

Reference	ISO 8665
Ambient pressure (kPA):	100
Ambient temperature (°C):	25
Relative humidity (%):	30
Fuel density (kg/dm³):	0.84
Fuel calorific value (kJ/kg):	42700
Fuel temperature (°C):	40

Rating classification

		Definition
A1	Short range fast pleasure service	Limited to 10% of time Cruising speed at engine rpm <90% of calibration rated speed 300 h/y
A2/B1	Long range pleasure/ commercial service	Limited to 10% of time Cruising speed at engine rpm <90% of calibration rated speed 1000 h/y
B	Light duty	Limited to 10% of time Cruising speed at engine rpm <90% of calibration rated speed 1500 h/y
C	Medium duty	Limited to 25% of time Cruising speed at engine rpm <90% of calibration rated speed 3000 h/y
D	Heavy duty	up to 100% of time unlimited h/y

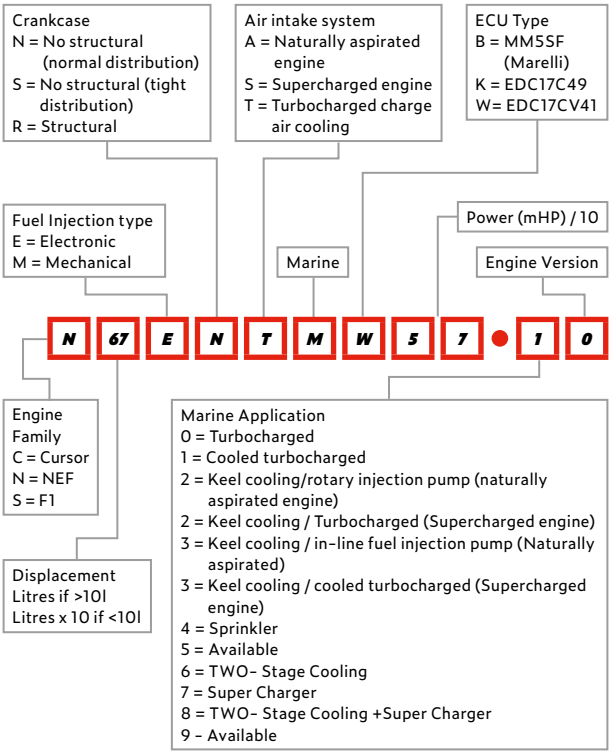
Marine Engine Commercial Naming

Engine Family	Engine Displacement*	Maximum Power**	Emissions
N	67	450	N

	Definition	
Engine Family	F1 Series NEF Series Cursor Series	S N C
Engine Displacement*	F1 & NEF Series Cursor Series	Displacement (Lt) x 10 F1 3 Lt = 30 Displacement (Lt) Cursor 15.9 Lt = 16
Maximum Power**	Rating A1/A2 Maximum engine Power (HP) Rating D Maximum engine Continuous Power (HP)	
Emissions	E = EU Emissions N = NAFTA Emissions	

* Displacement >10l – Litres; Displacement <10l - litres x 10
** Pleasure: Max engine Power (metric HP)
Commercial: Max engine Continuous Power (metric HP)

Marine Engine Technical Identification



Engines Specifications

Engine model	Rating	kW	hp	rpm	Dimensions* (L**xWxH) (mm)	Dry Weight (kg)
S30 230 E	B	129	175.5	3500	780 x 775 x 753	330
S30 230 E	C	85	115.6	3500	780 x 775 x 753	330
N40 170***	C	125	170	2800	850 x 708 x 785	490
N40 170***	C	110	150	2800	850 x 708 x 785	490
N40 170***	C	74	100	2800	850 x 708 x 785	490
N40 170***	C	63	85	2800	850 x 708 x 785	490
N40 250 E	B1	169	230	2800	850 x 708 x 785	490
N40 250 E	B	147	200	2800	850 x 708 x 785	490
N40 250 E	C	110	150	2800	850 x 708 x 785	490
N40 250 E	C	74	100	2800	850 x 708 x 785	490
N45 100	B	66.5	90	2800	811 x 700 x 836	450
N45 100	D	63	85	2800	811 x 700 x 836	450
N60 400 E	B1	272	370	3000	1072 x 739 x 778	595
N60 400 E	B	242	330	3000	1072 x 739 x 778	595
N60 400 E	C	198	270	3000	1072 x 739 x 778	595
N67 150	B	99.5	135	2800	1052 x 705 x 910	530
N67 150	D	92	125	2800	1052 x 705 x 910	530
N67 170***	D	125	170	2300	1089 x 724 x 788	600
N67 220	C	132	180	2800	1072 x 749 x 800	605
N67 220	D	110	150	2800	1072 x 749 x 800	605
N67 280	B	191	260	2800	1072 x 749 x 800	605
N67 280	C	169	230	2800	1072 x 749 x 800	605
N67 280	D	132	180	2500	1072 x 749 x 800	605

* Dimensions can be changed according to engine options.
** Lenght at flywheel.
*** IWV Stage V Certification.

Engine model	Rating	kW	hp	rpm	Dimensions* (L**xWxH) (mm)	Dry Weight (kg)
N67 450 N	B1	309	420	3000	1089 x 724 x 788	600
N67 450 N	B	272	370	3000	1089 x 724 x 788	600
N67 450 N	C	257	350	3000	1089 x 724 x 788	600
N67 550	B1	368	500	3200	1089 x 850 x 825	721
N67 550	B	353	480	3200	1089 x 850 x 825	721
N67 570 EVO	B1	390	530	3000	1089 x 847 x 825	721
N67 570 EVO	B	357	485	3000	1089 x 847 x 825	721
C90 170***	D	125	170	2000	1288 x 863 x 962	950
C90 380	C	301	410	2000	1288 x 863 x 962	940
C90 380	D	279	380	2000	1288 x 863 x 962	940
C90 620 E	B1	426	580	2530	1288 x 868 x 962	940
C90 620 E	B1	404	550	2530	1288 x 868 x 962	940
C90 620 E	B	368	500	2530	1288 x 868 x 962	940
C90 620 E	C	331	450	2530	1288 x 868 x 962	940
C13 500	C	382	520	2000	1465 x 1000 x 1058	1345
C13 500	D	367	500	2000	1465 x 1000 x 1058	1345
C13 825 E	B1	551	750	2400	1465 x 1000 x 1058	1395
C13 825 E	B	478	650	2400	1465 x 1000 x 1058	1395
C13 825 E	C	441	600	2400	1465 x 1000 x 1058	1395
C16 600	D	441	600	1800	1465 x 1000 x 1160	1570
C16 600	D	404	550	1800	1465 x 1000 x 1160	1570
C16 600	D	368	500	1800	1465 x 1000 x 1160	1570
C16 1000	B1	735	1000	2300	1465 x 1136 x 1160	1640
C16 1000	B	662	900	2300	1465 x 1136 x 1160	1640
C16 1000	C	599	815	2300	1465 x 1136 x 1160	1640
C16 1000	C	551	750	2300	1465 x 1136 x 1160	1640
C16 1000	C	478	650	2300	1465 x 1136 x 1160	1640

THE F1 SERIES

S30 230 E

Arrangement:	4 Cyl. in line
Total Displacement (L):	3,0
Maximum Power (kW (Hp) @ rpm):	129 (175.5) @ 3.500
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 780 x 775 x 753 mm
Dry Weight	330 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	RCD II
B	129	175.5	3500	215 @ 2400	•
C	85	115.6	3500	217 @ 2400	•

Air Handling

TCA	Turbocharged with aftercooler
TC	Turbocharged
NA	Naturally Aspirated

Injection System

M	Mechanical
CR	Common Rail
EUI	Electronic Unit Injector

THE NEF SERIES

N40 170[1]

Arrangement:	4 Cyl. in line
Total Displacement (L):	3,9
Maximum Power (kW (Hp) @ rpm):	125 (170) @ 2.800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 850 x 708 x 785 mm
Dry Weight	490 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IWV V
C	125	170	2800	210 @ 2200	●
C	110	150	2800	216 @ 2200	●
C	74	100	2800	213 @ 1800	●
C	63	85	2800	224 @ 1900	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
(1) Keel-cooled versions are also available

N40 250 E[1]

Arrangement:	4 Cyl. in line
Total Displacement (L):	3,9
Maximum Power (kW (Hp) @ rpm):	169 (230) @ 2.800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	L**xWxH) 850 x 708 x 785 mm
Dry Weight	490 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II	RCD II
B1	169	230	2800	213 @ 2000	●	●
B	147	200	2800	214 @ 2550	–	–
C	110	150	2800	214 @ 2550	–	●
C	74	100	2800	213 @ 1800	–	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
(1) Keel-cooled versions are also available

N45 100[1]

Arrangement:	4 Cyl. in line
Total Displacement (L):	4,5
Maximum Power (kW (Hp) @ rpm):	66.5 (90) @ 2.800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	NA
Valves per cylinder:	2
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Mechanical
Injection System:	M

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 811 x 700 x 836 mm
Dry Weight	450 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)
B	66.5	90	2800	228 @ 1800
D	63	85	2800	228 @ 1800

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
(1) Keel-cooled versions are also available

N60 400 E

Arrangement:	6 Cyl. in line
Total Displacement (L):	5,9
Maximum Power (kW (Hp) @ rpm):	272 (370) @ 3.000
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TAA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1072 x 739 x 778 mm
Dry Weight	595 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II	RCD II
B1	272	370	3000	208 @ 2250	•	•
B	242	330	3000	208 @ 2000	•	•
C	198	270	3000	208 @ 2000	•	•

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector

N67 150[1]

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	99.5 (135) @ 2.800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	NA
Valves per cylinder:	2
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Mechanical
Injection System:	M

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1052 x 705 x 910 mm
Dry Weight	530 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)
B	99.5	135	2800	225 @ 1800
D	92	125	2800	225 @ 1400

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
(1) Keel-cooled versions are also available

N67 170[1]

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	125 (170) @ 2.300
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1052 x 705 x 910 mm
Dry Weight	530 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IWV V
D	125	170	2300	216 @ 1800	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
(1) Keel-cooled versions are also available

N67 220

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	132 (180) @ 2.800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TC
Valves per cylinder:	2
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Mechanical
Injection System:	M

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1072 x 749 x 800 mm
Dry Weight	605 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)
C	132	180	2800	211 @ 1800
D	110	150	2800	219 @ 2400

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector

N67 280[1]

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	191 (260) @ 2.800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	2
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Mechanical
Injection System:	M

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1072 x 749 x 800 mm
Dry Weight	605 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II
B	191	260	2800	209 @ 1800	•
C	169	230	2800	215 @ 2100	•
D	132	180	2500	208 @ 2000	•

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
(1) Keel-cooled versions are also available

N67 450 N[1]

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	309 (420) @ 3.000
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1089 x 724 x 788 mm
Dry Weight	600 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II	RCD II	EPA Tier 3 Commercial	China GB II (GB15097-2016)
B1	309	420	3000	206 @ 2000	●	●	●	●
B	272	370	3000	206 @ 1800	●	●	●	●
C	257	350	3000	207 @ 1800	●	●	●	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
(1) Keel-cooled versions are also available

N67 550

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	368 (500) @ 3.200
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1089 x 850 x 825 mm
Dry Weight	721 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II	RCD II	EPA Tier 3 Commercial	China GB II (GB15097-2016)
B1	368	500	3200	209 @ 1800	●	●	●	●
B	353	480	3200	209 @ 1800	●	●	●	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector

N67 570 EVO[1]

Arrangement:	6 Cyl. in line
Total Displacement (L):	6,7
Maximum Power (kW (Hp) @ rpm):	390 (530) @ 3.000
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1089 x 847 x 825 mm
Dry Weight	721 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II	RCD II	EPA Tier 3 Commercial
B1	390	530	3000	209 @ 1900	•	•	•
B	357	485	3000	211 @ 2300	•	•	•

Air Handling

TCA	Turbocharged with aftercooler
TC	Turbocharged
NA	Naturally Aspirated

Injection System

M	Mechanical
CR	Common Rail
EUI	Electronic Unit Injector
(1)	Keel-cooled versions are also available

THE CURSOR SERIES

C90 170

Arrangement:	6 Cyl. in line
Total Displacement (L):	8,7
Maximum Power (kW (Hp) @ rpm):	125 (170) @ 2.000
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1288 x 863 x 962 mm
Dry Weight	950 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IWV
D	125	170	2000	207 @ 1200	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector

C90 380[1]

Arrangement:	6 Cyl. in line
Total Displacement (L):	8,7
Max Power (kW (Hp) @ rpm):	301 (410) @ 2.000
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1288 x 863 x 962 mm
Dry Weight	940 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II	China GB I (GB15097-2016)
C	301	410	2000	203 @ 1800	●	●
D	279	380	2000	206 @ 1800	●	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
(1) Keel-cooled versions are also available

C90 620 E

Arrangement:	6 Cyl. in line
Total Displacement (L):	8,7
Maximum Power (kW (Hp) @ rpm):	426 (580) @ 2.530
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1288 x 868 x 962 mm
Dry Weight	940 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II	RCD II	EPA Tier 3 Commercial	China GB II (GB15097-2016)
B1	426	580	2530	213 @ 2200	●	●	●	-
B1	404	550	2530	209 @ 2200	●	●	●	●
B	368	500	2530	204 @ 2000	●	●	●	●
C	331	450	2530	202 @ 1800	●	●	●	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector

C13 500[1]

Arrangement:	6 Cyl. in line
Total Displacement (L):	12,9
Max Power (kW (Hp) @ rpm):	382 (520) @ 2.000
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	EUI

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1465 x 1000 x 1058 mm
Dry Weight	1345 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II
C	382	520	2000	195 @ 1500	●
D	367	500	2000	195 @ 1600	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector
(1) Keel-cooled versions are also available

C13 825 E

Arrangement:	6 Cyl. in line
Total Displacement (L):	12,9
Maximum Power (kW (Hp) @ rpm):	551 (750) @ 2.400
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	EUI

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1465 x 1000 x 1058 mm
Dry Weight	1395 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II	RCD II
B1	551	750	2400	198 @ 1900	●	●
B	478	650	2400	207 @ 1500	●	●
C	441	600	2400	207 @ 1500	●	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector

C16 600

Arrangement:	6 Cyl. in line
Total Displacement (L):	15,9
Max Continuous Power (kW (Hp) @ rpm):	441 (600) @ 1.800
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1465 x 1000 x 1160 mm
Dry Weight	1570 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II	EPA Tier 3 Commercial	China GB II (GB15097-2016)
D	441	600	1800	199 @ 1200	●	●	●
D	404	550	1800	199 @ 1200	●	-	●
D	368	500	1800	199 @ 1200	●	●	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector

C16 1000

Arrangement:	6 Cyl. in line
Total Displacement (L):	15,9
Maximum Power (kW (Hp) @ rpm):	735 (1000) @ 2.300
Thermodynamic cycle:	Diesel 4 stroke
Air handling:	TCA
Valves per cylinder:	4
Cooling System:	Liquid
Direction of Rotation (viewed facing flywheel):	Counterclockwise
Engine management:	Electronic
Injection System:	CR

WEIGHT AND DIMENSIONS

Dimensions*	(L**xWxH) 1465 x 1136 x 1160 mm
Dry Weight	1640 Kg

* Dimensions can be changed according to engine options
** Length at flywheel

Rating	kW	hp	rpm	g/kWh @ rpm (Best Value)	IMO II	RCD II	EPA Tier 3 Commercial	China GB II (GB15097-2016)
B1	735	1000	2300	205 @ 1700	●	●	●	●
B	662	900	2300	203 @ 1700	●	●	-	●
C	599	815	2300	203 @ 1700	●	●	●	●
C	551	750	2300	200 @ 1600	●	●	●	●
C	478	650	2300	208 @ 1600	●	●	●	●

Air Handling
TCA Turbocharged with aftercooler
TC Turbocharged
NA Naturally Aspirated

Injection System
M Mechanical
CR Common Rail
EUI Electronic Unit Injector

Red Horizon

FPT Industrial, in collaboration with two leading companies, NAVICO (SIMRAD) and ZF, is proud to introduce RED HORIZON: a "Premium" integrated system for engine/navigation monitoring and controls with state-of-the-art technologies.

Monitoring Systems

FPT 7" Premium Display Key Features

Based on SIMRAD technology, the FPT Premium 7" is a compact display, perfect for small-medium sportboats, dayboats, and center-consoles. Dedicated to monitoring engine data, the panel offers the chance to extend the display options on a wide range of navigation functions.

- Widescreen display with LED backlight
- Easy to use tablet-style touchscreen controls
- Wide range of engine data, alarm monitoring and options such as the on-board entertainment system control
- Multi Function Display option: fully featured chartplotter (C-MAP charts) with built-in GPS receiver, and monitoring of additional options*, like radar, echosounder and autopilot
- Built-in wireless connectivity to a compatible smartphone or tablet, giving access to charts, radar and other functions from anywhere on board
- In addition to the 7-inch display the 9'', 12'' and 16" MFD sizes complete the FPT Premium Display series

* Devices provided by NAVICO (SIMRAD) network

Electronic Control Systems

Electronic Controls - FPT Premium Control Key Features

FPT uses ZF electronic propulsion control systems at the cutting edge of electronics technology, specifically matched for FPT engines

- The Premium electronic control is a powerful system that integrates the latest CAN bus technology in an innovative and compact control head, with an ergonomic lever and a user-friendly display where all functions can be easily selected
- With an easy plug-in installation, the "Premium" control provides complete governance of navigation offering bottom set up, start interlock, emergency reversal protection, engine synchronisation and optional features for docking or trolling
- Up to six control stations.

Manoeuvring Systems - FPT Premium Joystick Key Features

Controlling engines, transmissions and thrusters simultaneously, the "Premium joystick" provides unbeatable ease of vessel control during manoeuvres. The "Premium joystick" offers the following main advantages: vessel control at low speed, easy manoeuvring in tight spaces, vessel positioning against wind and current

Main technical features:

- 12/24 V DC system
- CAN based joystick station, with one push button to take control and select functions
- CE certified Manoeuvring Control Unit
- CAN connection to "Premium control" processor
- Options:
  - Hold Position
  - Interface with ZF Steer Command
  - Up to six control stations

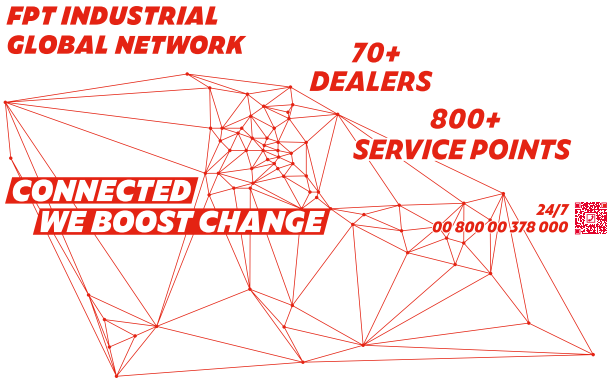
Marine Engine Options

FPT Industrial offer a whole range of options to complete your engine:

- Suspensions (Silent block)
- Electrical system 12V/24V
- Insulated poles electrical system
- Uprated Alternators
- Front PTO
- Instruments kit
- Digital and analog panels
- Water cooled or dry exhaust pipes
- Gearboxes
- Emission and Propulsion engine certification with several classification societies
- NMEA2000 Converter
- Remote Control lever
- Red Horizon

Please contact your local distributor on our locator at fptindustrial.com to get more information.

FPT Industrial Global Network



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