

MARINE Commercial F1

S30 230 E

129 kW

Rating type B: 129 kW (175.5 HP) @ 3500 rpm

Rating type C: 85 kW (115.6 HP) @ 3500 rpm

SPECIFICATIONS

| | | |
|--|-----------------|------------|
| Thermodynamic cycle | Diesel 4 stroke | |
| Air Feeding | TCA | |
| Cylinders arrangement | 4L | |
| Bore x Stroke | millimeters | 95.8 x 104 |
| Total displacement | liters | 3 |
| Valves per cylinder | number | 4 |
| Cooling System | liquid | |
| Direction of Rotation (viewed facing flywheel) | CCW | |
| Engine management | electronic | |
| Injection System | CR | |

STANDARD CONFIGURATION

| | | |
|--|--|-------|
| Flywheel housing | type | SAE 4 |
| Flywheel size | inch | 8" |
| Air filter | rear side | |
| Turbocharger | Waste Gate (water cooled) Turbo with Aftercooler (TCA) | |
| Heat exchanger | tube type | |
| Exhaust gas water mixer - Exhaust cooled elbow | - | |
| Water charge tank | included | |
| Fuel filter | number | 1 |
| Fuel prefilter | included (loose) | |
| Fuel pump | included | |
| Oil filter | number | 1 |
| Oil sump | aluminium | |
| Oil vapours blow-by circuit | front | |
| Oil heat exchanger | built in the crankcase | |
| Oil filler | on front cover | |
| Starter | 12V - 2.3kW | |
| Alternator | 12 V - 110 A | |
| Engine stop device | by electronic central unit | |
| Wiring harness | with EDC (Electronic Diesel Control) | |
| Painting color | white "ICE" | |

WEIGHT AND DIMENSIONS

| | | |
|------------------------|----|-----------------|
| Dimensions (L x W x H) | mm | 780 x 775 x 753 |
| Dry Weight | Kg | 330 |

DIMENSIONS CAN BE CHANGED ACCORDING TO ENGINE OPTIONS



IMAGES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY

ELECTRICAL SYSTEM

| | | |
|---------|---|-----|
| Voltage | V | 12V |
|---------|---|-----|

NOT INCLUDED IN STANDARD CONFIGURATION

| | | |
|--|----|--------|
| Battery - minimum capacity recommended | Ah | 110 Ah |
| Battery - minimum cold cranking capacity recommended | Ah | 800 Ah |

Do you want to know more?

LEGEND

| Arrangement | Air Handling | Turbocharger | Injection System | Exhaust System |
|---------------------------|-------------------------------------|--------------------------------------|--------------------------------|-------------------------------------|
| L (in line) | TC (Turbocharged) | WG (Wastegate) | M (Mechanical) | EGR (Exhaust Gas Recirculation) |
| V (90° "V" configuration) | NA (Naturally Aspirated) | VGT (Variable Geometry Turbocharger) | CR (Common Rail) | SCR (Selective Catalytic Reduction) |
| | TCA (Turbocharged with aftercooler) | TST (Twin Stage Turbocharge) | EUI (Electronic Unit Injector) | |
| | | | MPI (Multi Point Injection) | |

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 usage 300 hours per year.
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 usage 1000 hours per year.

B Light Duty: Full throttle operation restricted within 10% of 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.
D Heavy Duty

FOR INFORMATION ON THE AVAILABLE RATINGS NOT LISTED IN THIS DOCUMENT PLEASE CONTACT THE FPT INDUSTRIAL SALES NETWORK OR VISIT OUR SITE WWW.FPTINDUSTRIAL.COM

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

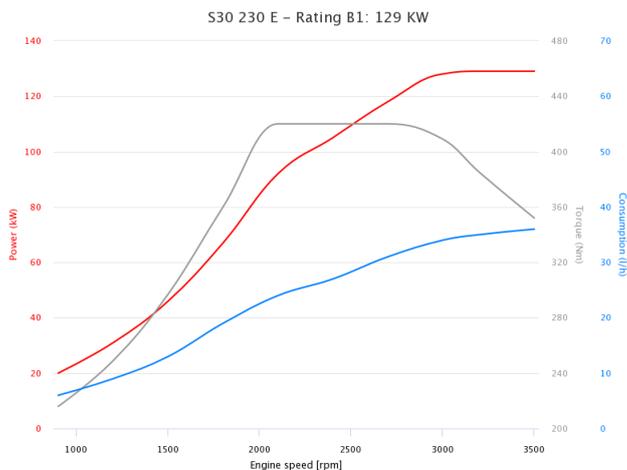


RATING TYPE

| | | B | C |
|---|-------------------|-------------|------------|
| Maximum power [*] | kW (HP) | 129 (175.5) | 85 (115.6) |
| At speed | rpm | 3500 | 3500 |
| Maximum no load governed speed at max rating | rpm | 3980 | 3980 |
| Minimum idling speed | rpm | 750 | 750 |
| Mean piston speed at rated speed | m/s | 12.1 | 12.1 |
| BMEP at max power | bar | 18 | 15.3 |
| Specific fuel consumption (best value) | g/kWh @ rpm | 237@4000 | 246@4000 |
| IMO Marpol Tier 2 (IMO Annex VI Technical Code 2008) | | - | - |
| RCD Stage 2 (2013/53/EC) | | ✓ | ✓ |
| IWW Stage V (EU 2016/1628) | | - | - |
| EPA Tier 3 Commercial | | - | - |
| EPA Tier 3 Recreational | | - | - |
| China GB I (GB15097-2016) | | - | - |
| China GB II (GB15097-2016) | | - | - |
| Oil consumption at max rating | (% of fuel cons.) | < 0.2 | < 0.2 |
| Minimum starting temperature without auxiliaries | °C | -10° | -10° |
| Oil and oil filter maintenance interval for replacement | hours | 600 | 600 |

* Net Power at flywheel according to ISO 8665, after 50 hours running, Fuel Diesel EN 590. Power tolerance 5%.

POWER & TORQUE



COMMERCIAL

LEGEND

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