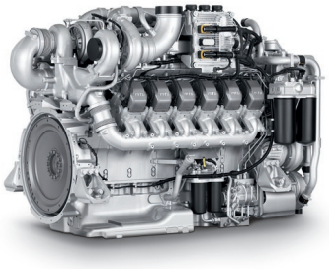
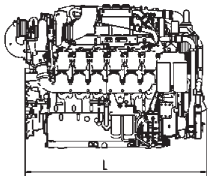
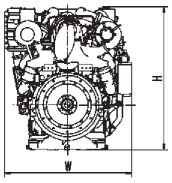
Oil & Gas

# SERIES 2000-06

## for oil & gas mechanical drive applications







Optional equipment and finishing shown. Standard may vary.

| Engine | Dimensions (LxWxH) mm (in) | Mass, dry kg (lbs) |
|---|---|---|
| 12V | 2030 x 1280 x 1430 (80 x 50 x 56) | 2950 (6503) |
| 16V | 2370 x 1280 x 1430 (93 x 50 x 56) | 3350 (7385) |

All dimensions are approximate, for complete information refer to the installation drawing.

| Engine | | |
|---|---|---|
| Bore/stroke | mm (in) | 135/156 (5.3/6.15) |
| Cylinder configuration | | 90° V |
| Displacement/cylinder | l (cu in) | 2.23 (136) |
| Displacement, total | l (cu in) | 12V: 26.8 (1633); 16V: 35.7 (2177) |
| Fuel specification | | Diesel fuel in accordance with DIN EN 590, ASTM D 975, BS 2869, US DF # 1-Off Highway and US DF # 2-Off Highway |

| Application group | Rated power ICFN | | | Peak torque | | |
|---|---|---|---|---|---|---|
| | kW | bhp | rpm | Nm | lb-ft | rpm |
| Optimization | 31, 38 | | | | | |
| Engine type | Medium duty operation (4B) | | | | | |
| 12V 2000 S56 | 783 | 1050 | 1800/2100 | 4640 | 3423 | 1100-1500 |
| 16V 2000 S56 | 970 | 1301 | 2100 | 5471 | 4035 | 1300 |
| Optimization | 31, 38 | | | | | |
| Engine type | Short time / frac operation (4D) | | | | | |
| 12V 2000 S96 | 858 | 1150 | 2100 | 4911 | 3622 | 1300-1600 |
| 16V 2000 S96 | 1163 | 1560 | 2100 | 6582 | 4854 | 1300 |

Optimization: 31 China NRMM Stage III (GB20981-2014)
38 EPA Nonroad Tier 4i Comp (40CFR1039)

A Rolls-Royce solution

| Application | Power definition | |
|---|---|---|
| 4B | Continuous operation w/variable load | Load factor: < 60 %, operating hours: unrestricted, overload: fuel stop (ICFN) |
| 4D | Standby operation w/variable load | Load factor: < 40 %, operating hours: max. 2000 h/year, overload: fuel stop (ICFN) |

Power output within 5% tolerance at standard conditions. Power definition according to ISO 3046 (ratings also correspond to SAE J 1995 and SAE J 1349 standard conditions)
Consult your distributor/dealer for the rating that will apply to your specific application.

| Standard equipment | |
|---|---|
| Starting system | Electrical starter 24 VDC |
| Fuel system | Electronically controlled common-rail injection system, dual engine mounted fuel filters, double-walled high pressure fuel lines |
| Lube oil system | Forced feed lubricating system with piston cooling, lube oil circulating pump, multi stage oil filter, lube oil heat exchanger, 15° oil pan |
| Combustion air system | Two-stage turbocharging, intercooling and charge air cooling, cooled exhaust gas recirculation, turbocharger air intake from free end (front side) |
| Coolant System SCCC | HT (JW) and LT (CAC) separate coolant circuits with coolant pumps and thermostats |
| Flywheel/housing | Flexplate, SAE 0 flywheel housing, suitable for wet and dry drive solutions |
| Engine mounting | 3-point or 4-point mounting |
| Electronics and instrumentation | Latest ADEC engine control and management system |

| Optional equipment | |
|---|---|
| Starting system | Redundant starting systems electric (dual); air |
| Oil system | Remote mounted oil filters, 22°/30° oil pans |
| Combustion air system | Air shut-off flaps, turbocharger air intake from driving end (rear side) |
| Coolant system | Coolant heater, front crank PTO for fan drive (various ratios), connections for transmission heat exchanger (partial flow/full flow) |
| Flywheel/housing | Flywheel housing with aux. PTO`s |
| Accessory drives | Battery charging alternator, 28VDC, aux. PTO's for hydr. pump drives and compressors |

Reference conditions:
> Intake-air temperature: 25°C (77°F)
> Ambient air pressure: 1000 mbar (14.5 psi)
> Altitude above sea level: 100 m (328 ft)
Subject to change without notice. Customization possible.
Engines illustrated in this document may feature options not fitted as standard.

Subject to change. | 3235191 | Edition 01/20 | ESM 2020-01.