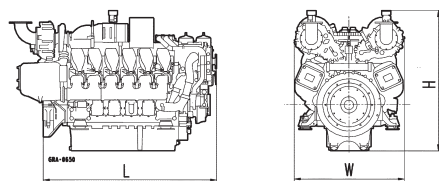


Oil & Gas

Series 4000

GenDrive Engines

for the Oil & Gas Industry



Dimensions and Masses

Engine	Dimensions LxWxH mm (in)	Mass, dry kg (lbs)
12V	2400x1520x1930 (100x63x69)	6410 (14132)
16V	2850x1520x1930 (119x63x69)	7610 (16777)

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

Engine Model

Bore/stroke	mm (in)	165/190 (6.5/7.5)
Cylinder configuration		90°V
Displacement/cylinder	l (cu in)	4.06 (248)
Displacement, total	l (cu in)	12V: 48.7 (2972); 16V: 65.0 (3967)
Fuel specification		EN 590, Grade No.1-D/2-D

Application Group	Continuous Power 3A	Prime Power 3B	Prime Power limited 3C
Optimization	⑥	⑥	⑥
Engine type	Rated Power kW (bHP) at 1500 rpm - (50 Hz)		
12V 4000 P61 *	1140 (1529)	1320 (1770)	1320 (1770)
16V 4000 P61 *	1520 (2038)	1760 (2360)	1760 (2360)
Optimization	②⑥	②⑥	②⑥
Engine type	Rated Power kW (bHP) at 1800 rpm - (60 Hz)		
12V 4000 P81 *	1380 (1851)	1600 (2145)	1600 (2145)
16V 4000 P81 *	1840 (2467)	2105 (2820)	2105 (2820)

Optimization: ② Exhaust emission EPA, Tier 1 compliant (certificate on request)

⑥ Exhaust emission IMO

* ATEX Zone 2 classification available



Power. Passion. Partnership.

Application	Power definition	
3A	Continuous operation w/ 100% load	Load factor: ≤ 100 %, Operating hours: unrestricted, Overload: 10% capability (ICXN)
3B	Continuous operation w/ variable load	Load factor: < 75%, Operating hours: unrestricted, Overload: 10% capability (ICXN)
3C	Standby operation w/ variable load	Load factor: < 75%, Operating hours: max. 1000 p/ y, Overload: 10% capability (ICXN)

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 MTU Detroit Diesel or MTU distributor/dealer for the rating that will apply to your specific application.

Standard Equipment	
Starting System	Electric starter
Fuel Oil System	Common Rail Injection System, Double walled high pressure fuel lines with monitoring, Fuel main filters with changeover valves
Lube Oil System	Multi stage lube oil filters with changeover valve, Closed crankcase breather system
Combustion Air System	Horizontal air inlet
Exhaust Gas System	Exhaust gas bellows with companion flanges
Cooling System	HT (JW) and LT (CAC) coolant circuit with coolant pumps, Water cooled exhaust gas manifolds and turbochargers < 220°C
Flywheel/Housing	SAE 00 flywheel housing "dry"
Engine Mounting	Mounting brackets at engine front and rear
Electronics and Instrumentation	MDEC engine control and management system

Optional Equipment	
Starting System	Redundant starting system (electric, pneumatic, hydraulic)
Fuel System	Fuel pre-filter with water separator
Lube Oil System	Lube oil centrifugal filters, Special oil sump for inclinations up to 25° in all directions
Combustion Air System	Engine mounted air filters, Heavy duty air filters (shipped loose), Electrically operated air shut-off flaps
Exhaust Gas System	Vertical exhaust gas outlet, Exhaust gas bellows
Coolant System	Coolant connecting parts (flex. hoses and rubber bellows), Front crank PTO for radiator fan drive
Accessory Drives	Battery charging alternator, 28VDC, Aux. PTO`s for hydr. pump drives
Certification	3 rd party certification available upon request

Reference conditions:

> Intake-air temperature: 25°C (77°F) > Charge air coolant temp.: 55°C (131° F) > Ambient air pressure: 1000 mbar > Altitude above sea level: 100 m (328 ft)

> Rated power available up to 40°C (104°F) and 400 m (1312 ft)

Subject to change without notice. Customization possible. Engines illustrated in this document may feature options not fitted as standard to standard engine.