

PowerGen

Series 2000

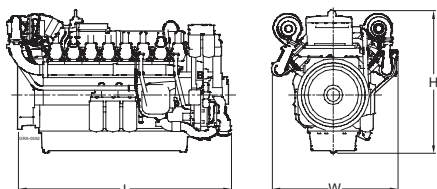
for Stationary Industrial Applications



Dimensions and Masses

Engine	Dimensions LxWxH mm (in)	Mass, dry kg (lbs)
12V	1755x1580x1775 (6 x62x70)	2945 (6493)
16V	2100x1580x1775 (83x62x70)	3800 (8377)

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



Engine Model		
Bore/stroke	mm (in)	130/150 (5.1/5.9)
Cylinder configuration		90° V
Displacement/cylinder	l (cu in)	1.99 (121)
Displacement, total	l (cu in)	12V: 23.9 (1458), 16V: 31.8 (1944)
Fuel specification		EN 590, Grade No.1-D/2-D

Application	Power definition	
4A	Continuous operation w/ 100% load	Load factor: ≥ 60%, Operating hours: unrestricted, Overload: Fuel stop (ICFN)
4B	Continuous operation w/ variable load	Load factor: < 60%, Operating hours: unrestricted, Overload: Fuel stop (ICFN)
4C	Short-time operation w/ variable load	Load factor: < 75%, Operating hours: max. 1000 p/y, 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 MTU Detroit Diesel or MTU distributor/dealer for the rating that will apply to your specific application.

Engine type	Reference No. Model/06N04M	Rated Power IFN			Peak Torque		
		kW	bHP	rpm	Nm	lb-ft	rpm
Optimization		③	③	③	③	③	③
Application		Heavy duty operation (4A)					
12V 2000 S12R*	R1238K40/1817	567	760	1800	3308	2440	1200
12V 2000 S12	R1238K40/1818	567	760	2100	3308	2440	1200
12V 2000 S*	R1238K37/1699	567	760	2100	3089	2278	1350
16V 2000 S12R*	R1638K40/1812	783	1050	1800	4459	3288	1350
16V 2000 S12	R1638K40/1813	783	1050	2100	4459	3288	1350

Optimization: ③ Exhaust emission EPA 40 CFR 89/Tier 2 *certificate on request



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Engine type	Reference No. Model/06N04M	Rated Power IFN			Peak Torque		
		kW	bHP	rpm	Nm	lb-ft	rpm
Optimization		②	②	②	②	②	②
Application		Medium duty operation (4B)					
12V 2000 S	R1238K39/1577	634	850	1800	3681	2715	1350
12V 2000 S	R1238K39/1576	634	850	2100	3681	2715	1350
12V 2000 S	R1238K39/1575	675	905	1800	3918	2890	1350
12V 2000 S	R1238K39/1574	675	905	2100	3918	2890	1350
Optimization		③	③	③	③	③	③
12V 2000 S52R*	R1238K40/1819	634	850	1800	3681	2715	1350
12V 2000 S52	R1238K40/1820	634	850	2100	3681	2715	1350
12V 2000 S62R*	R1238K40/1821	675	905	1800	3918	2890	1350
12V 2000 S62	R1238K40/1822	675	905	2100	3918	2890	1350
16V 2000 S52R*	R1638K40/1814	899	1205	1800	5287	3900	1500
16V 2000 S52	R1638K40/1815	899	1205	2100	5287	3900	1500
Application		Short-time operation (4C)					
12V 2000 S92R	R1238K40/1823	750	1005	2100	4204	3100	1350
12V 2000 S92	R1638K40/1816	1000	1341	2100	5316	3918	1500

Optimization: ② Exhaust emission EPA 40 CFR 89/Tier 1 ③ Exhaust emission EPA 40 CFR 89/Tier 2 *certificate on request

Standard Equipment	
Starting System	Electrical starter 24 VDC
Fuel System	Electronically controlled high-pressure injection with single unit injection pumps (EUP), Dual engine mounted fuel filters
Lube Oil System	Forced feed lubricating system with piston cooling, lube oil circulating pump, multi stage oil filter, lube oil heat exch.
Combustion Air System SCCC	HT (JW) and LT (CAC) separate coolant circuits with coolant pumps and thermostats
Combustion Air System JWAC	With coolant pumps and thermostats
Flywheel/Housing	SAE 0 Flywheel housing "dry"
Engine Mounting	Front engine mount (Trunnion assembly)
Electronics and Instrumentation	DDEC IV engine control and management system

Optional Equipment	
Starting System	Redundant starting systems electric (Dual); Air
Lube Oil System	Remote mounted oil filters 15° oil pan
Combustion Air System	Air shut-off Flaps
Cooling System	Coolant heater, Front crank PTO for Fan drive (various ratios)
Flywheel/Housing	SAE 0 Flywheel housing "wet"
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 > 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 to standard engine.