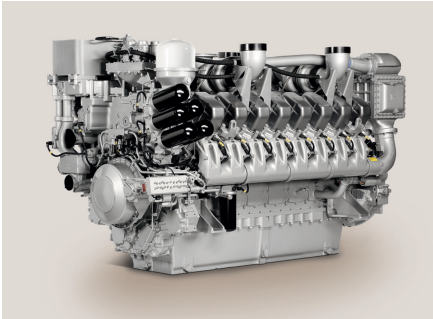


Gendrive

# Series 4000-03

## for PowerGen Applications



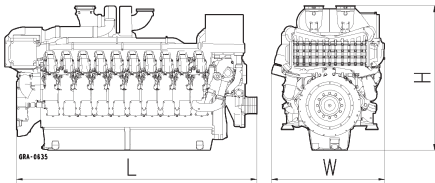
### Dimensions and Masses

Engine	Dimensions LxWxH mm (in)	Mass, dry kg (lbs)
12V	2410x1660x2160 (95x65x85)	6200 (13670)
16V	2865x1660x2155 (113x65x85)	7700 (16975)
20V	3410x1615x2050 (134x64x81)	9640 (21255)

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

### Engine Model

Bore/stroke	mm (in)	170/210 (6.7/8.3)
Cylinder configuration		90°V
Displacement/cylinder	l (cu in)	4.77 (291)
Displacement, total	l (cu in)	12V: 57.3 (3493), 16V: 76.3 (4656), 20V: 95.4 (5822)
Fuel specification		EN 590, Grade No.1-D/2-D (ASTM D975-00)



### Engine Type

Optimization

### Application

12V 4000 G23  
12V 4000 G63  
16V 4000 G23  
16V 4000 G63  
20V 4000 G23  
20V 4000 G63  
20V 4000 G63L

### Prime Power 3B

or

### Rated Power kW (bhp) at 1500 rpm (50 Hz)

1420 (1904)  
1575 (2112)  
1798 (2411)  
1965 (2635)  
2200 (2950)  
2420 (3245)  
2590 (3473)

### Standby Power 3D

1575 (2112)  
1750 (2347)  
1965 (2635)  
2185 (2930)  
2420 (3245)  
2670 (3580)  
2850 (3822)

Optimization:  Exhaust emission TA-Luft, Edition 1986  
Fan drive power not included

Fuel consumption



Power. Passion. Partnership.

Engine Type	Prime Power 3B	Standby Power 3D
Optimization	<input checked="" type="checkbox"/> or <sup>ⓐ</sup>	<input checked="" type="checkbox"/> or <sup>ⓐ</sup>
Application	Rated Power kW (bhp) at 1800 rpm (60 Hz)	
12V 4000 G43	1520 (2038)	1736 (2328)
12V 4000 G83	1736 (2328)	1910 (2561)
16V 4000 G43	2020 (2709)	2280 (3058)
16V 4000 G83	2280 (3058)	2500 (3352)
20V 4000 G43	2490 (3339)	2740 (3674)
20V 4000 G83	2740 (3674)	3010 (4036)
20V 4000 G83L	3010 (4036)	3490 (4680)

Optimization:  Fuel consumption <sup>ⓐ</sup> Exhaust emission EPA 40 CFR 89/Tier 2  
 Fan drive power not included

Application	Power Definition	
3B	Continuous operation w/variable load	Load factor: < 75%, Operating hours: unrestricted, Overload: 10% (ICXN)
3D	Standby operation w/variable load	Load factor: < 85%, Operating hours: max. 500/yr, 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.

Standard Equipment	
Starting System	Electric starter 24 VDC/2-pole
Fuel System	"Common-Rail" fuel injection system-, with low and high pressure fuel pumps, Injectors with integrated accumulators, Double-walled high pressure fuel lines and electronically controlled injection
Lube Oil System	Forced-feed lubrication system with piston cooling, Lube oil circulation pump, Lube oil multi-stage filter, Lube oil cooler
Cooling System	HT (jacket water) and LT (charge air) circuits with separate coolant pumps and thermostats
Combustion Air System	Exhaust turbochargers, intercooler
Engine Mounting	Resilient engine mounts
Electronics and Instrumentation	Integrated electronic engine control and monitoring system ADEC

Optional Equipment	
Starting System	Compressed air starter, Redundant starting systems
Fuel System	Fuel pre-filter, special pre-filter with water separator
Lube Oil System	Centrifugal oil filter, Oil replenishment system
Coolant System	Electric coolant pre-heating unit, Mechanically or electrically driven radiator
Combustion Air System	Normal or heavy duty air filters
Engine Mounting	Resilient engine mounts, rigid engine mounts
Electronics and Instrumentation	Service and Application Module (SAM)

Reference conditions:

- > Intake-air temperature: 25°C (77°F)
- > Charge air coolant temp.: 45°C (113°F) at standby power and <sup>ⓐ</sup>
- > Altitude above sea level: 100 m (328 ft)
- > Charge air coolant temp.: 55°C (131 °F) <sup>ⓐ</sup>
- > Ambient air pressure: 1000 mbar (14.5 psi)
- > Rated power available up to 40°C (104° F) and 400 m

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