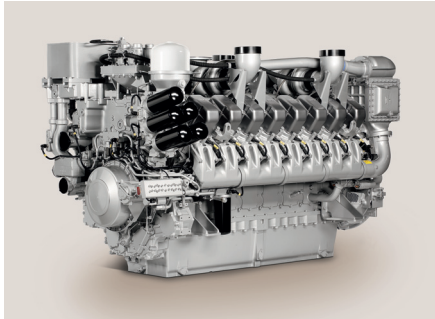


Gendrive

# Series 4000 Gx3

## for Power Generation Standby Applications with water-to-air charge air cooling



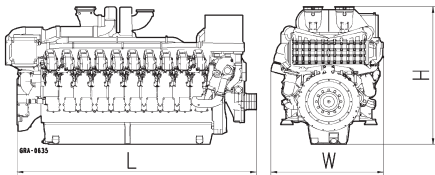
### Dimensions and Masses

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
12V	2490x1610x1870 (98x63x74)	6200 (13670)
16V	2865x1660x1810 (113x65x71)	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: 57.2 (3491), 16V: 76.3 (4655), 20V: 95.4 (5822)
Fuel specification		EN 590, Grade No.1-D/2-D (ASTM D975-00)



Application group	Power definition	
Standby Power (3D)	Emergency service, fuel stop power, IFN	Load factor: ≤ 85%, Operating hours: max. 500/year, Overload: Fuel stop power (IFN)
Standby Power with Overload (3E)	Emergency service, ICXN	Load factor: ≤ 85%, Operating hours: max. 500/year, Overload: 10% capability (ICXN)
Data Center Continuous Power (3F)	Standby Data Center, continuous power, ICXN	Load factor: ≤ 100%, Operating hours: unrestricted, Overload: 10% capability (ICXN)
Mission Critical Power (3H)	Standby for critical infrastructure	Load factor: ≤ 85%, Operating hours: max. 1000/year, Overload 50Hz: 10% capability (ICXN), Overload 60Hz: Fuel stop power (IFN)

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

**Rated power is without fan drive. The power consumption of any fan drive has to be deducted during designing of a generator set.**



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## Standby Power (3D)

Engine Type	Rated power kW(bhp) at 1500 rpm (50Hz)	Optimization		
		☒	②④	
		Fuel consumption optimized	NEA Singapore for ORDE, compliant EPA Tier 2	
12V 4000 G23	1575 (2112)	x	x	
12V 4000 G63	1750 (2347)	x	x	
16V 4000 G23	1965 (2635)	x	x	
16V 4000 G63	2185 (2930)	x	x	
20V 4000 G23	2420 (3245)	x	x	
20V 4000 G63	2670 (3580)	x	x	
20V 4000 G63L	2850 (3822)	x	x	

Fan power requirement not considered

Engine Type	Rated power kW(bhp) at 1800 rpm (60Hz)	Optimization		
		☒	③	⑱
		Fuel consumption optimized	US EPA Nonroad Tier 2 stationary (40 CFR 60)	US EPA Nonroad Tier 2 compliant (40 CFR 89)
12V 4000 G43	1736 (2328)	x	x	x
12V 4000 G83	1910 (2561)	x	x	x
16V 4000 G43	2280 (3058)	x	x	x
16V 4000 G83	2500 (3352)	x	x	x
16V 4000 G83L	2740 (3674)	x	x	x
20V 4000 G43	2740 (3674)	x	x	x
20V 4000 G83	3010 (4036)	x	x	x
20V 4000 G83L	3490 (4680)	x	x	x

Fan power requirement not considered

☒ ① ③ ⑱ ②④ reference to emission level in price list

## Standby Power with Overload (3E)

Engine Type	Rated power kW(bhp) at 1500 rpm (50Hz)	Optimization		
		☒	①	②④
		Fuel consumption optimized	TA-Luft optimized (NOx < 1700 mg/m <sup>3</sup> )	NEA Singapore for ORDE, compliant EPA Tier 2
12V 4000 G23	1420 (1904)	x	x	x
12V 4000 G63	1575 (2112)	x	x	x
16V 4000 G23	1798 (2411)	x	x	x
16V 4000 G63	1965 (2635)	x	x	x
20V 4000 G23	2200 (2950)	x	x	x
20V 4000 G63	2420 (3245)	x	x	x
20V 4000 G63L	2590 (3473)	x	x	x

Fan power requirement not considered

☒ ① ②④ reference to emission level in price list

## Data Center Continuous Power (3F)

Engine Type	Rated power kW(bhp) at 1500 rpm (50Hz)	Optimization		
		☒	①	②④
		Fuel consumption optimized	TA-Luft optimized (NOx < 1700 mg/m <sup>3</sup> )	NEA Singapore for ORDE, compliant EPA Tier 2
12V 4000 G23	1420 (1904)	x	x	x
12V 4000 G63	1575 (2112)	x	x	x
16V 4000 G23	1798 (2411)	x	x	x
16V 4000 G63	1965 (2635)	x	x	x
20V 4000 G23	2200 (2950)	x	x	x
20V 4000 G63	2420 (3245)	x	x	x
20V 4000 G63L	2590 (3473)	x	x	x

Fan power requirement not considered

Engine Type	Rated power kW(bhp) at 1800 rpm (60Hz)	Optimization		
		☒	③	⑱
		Fuel consumption optimized	US EPA Nonroad Tier 2 stationary (40 CFR 60)	US EPA Nonroad Tier 2 compliant (40 CFR 89)
12V 4000 G43	1520 (2038)	x	x	x
12V 4000 G83	1736 (2328)	x	x	x
16V 4000 G43	2020 (2709)	x	x	x
16V 4000 G83	2280 (3058)	x	x	x
20V 4000 G43	2490 (3339)	x	x	x
20V 4000 G83	2740 (3674)	x	x	x
20V 4000 G83L	3010 (4036)	x	x	x

Fan power requirement not considered

☒ ① ③ ⑱ ②④ reference to emission level in price list

## Mission Critical Power (3H)

Engine Type	Rated power kW(bhp) at 1500 rpm (50Hz)	Optimization		
		☒	①	②④
		Fuel consumption optimized	TA-Luft optimized (NOx < 1700 mg/m <sup>3</sup> )	NEA Singapore for ORDE, compliant EPA Tier 2
12V 4000 G23	1420 (1904)	x	x	x
12V 4000 G63	1575 (2112)	x	x	x
16V 4000 G23	1798 (2411)	x	x	x
16V 4000 G63	1965 (2635)	x	x	x
20V 4000 G23	2200 (2950)	x	x	x
20V 4000 G63	2420 (3245)	x	x	x
20V 4000 G63L	2590 (3473)	x	x	x

Fan power requirement not considered

Engine Type	Rated power kW(bhp) at 1800 rpm (60Hz)	Optimization		
		☒	③	⑱
		Fuel consumption optimized	US EPA Nonroad Tier 2 stationary (40 CFR 60)	US EPA Nonroad Tier 2 compliant (40 CFR 89)
12V 4000 G43	1736 (2328)	x	x	x
12V 4000 G83	1910 (2561)	x	x	x
16V 4000 G43	2280 (3058)	x	x	x
16V 4000 G83	2500 (3352)	x	x	x
16V 4000 G83L	2740 (3674)	x	x	x
20V 4000 G43	2740 (3674)	x	x	x
20V 4000 G83	3010 (4036)	x	x	x
20V 4000 G83L	3490 (4680)	x	x	x

Fan power requirement not considered

☒ ① ③ ⑱ ②④ reference to emission level in price list

Standard Equipment	
Starting System	2 electric starters (24 VDC/2-pole)
Fuel System	“Common-Rail“ fuel injection system, with low and high pressure fuel pumps, fuel pressure accumulator, high pressure fuel lines and electronically controlled injection
Lube Oil System	Forced feed lubrication system with piston cooling, lube oil circulation pump with safety valve, lube oil multi-stage filter, lube oil heat exchanger, oil centrifugal filter (only for 3G, 3F and 3H)
Combustion Air System	Exhaust turbochargers, intercooler
Cooling System	Coolant circulation pump and coolant thermostat for jacket water cooling circuit, coolant circulation pump and coolant thermostat for charge air cooling circuit
Engine Mounting	Set of engine mounting brackets at engine free and driving end
Engine Management	Integrated electronic engine control and monitoring system ADEC

Optional Equipment	
Starting System	Compressed air starter, redundant starting system
Fuel System	Fuel pre-filter, special fuel pre-filter with water separator
Lube Oil System	Centrifugal lube oil filter, oil replenishment system
Combustion Air System	Heavy duty air filters
Cooling System	Electric coolant pre-heating unit with circulating pump, thermoastat and non-return flap
Engine Mounting	Resilient engine mounts (rubber elements), rigid engine mounts

## Reference conditions:

- Intake-air temperature: 25°C (77°F)
- Ambient air pressure: 1 bar (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.