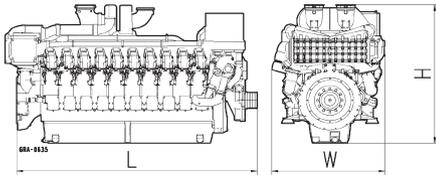
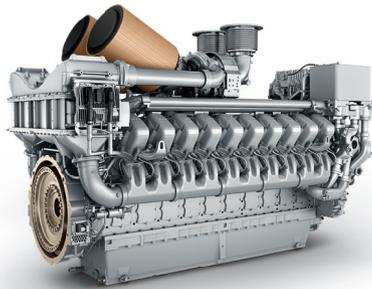




Gendrive

SERIES 4000 GX4

for power generation standby applications
with water-to-air charge air cooling



Engine - Gx4	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
12V	2495 x 1611 x 2182 (98 x 65 x 86)	6200 (13669)
16V	2981 x 1661 x 2182 (117 x 65 x 86)	7700 (16976)
20V	3486 x 1701 x 2172 (137 x 67 x 86)	9290 (20481)

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
12V4000 G34F/G94F	2495 x 1611 x 2182 (98 x 65 x 86)	6200 (13669)
16V4000 G34F/G94F	2981 x 1661 x 2182 (117 x 65 x 86)	8052 (17752)
20V4000 G44F/G94F 20V4000 G44LF/G94LF	3479 x 1700 x 2252 (137 x 67 x 89)	9650 (21275)

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

Engine		
Bore/stroke	mm (in)	170/210 (6.7/8.3)
Cylinder configuration		90° V
Displacement	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), HVO & GtL in acc. to EN15940 and mtu fluids and lubricants specification

Application group	Power definition	
Standby power (3D)	Emergency standby power, IFN	Load factor: ≤ 85%, operating hours: max. 500/year, overload: fuel stop power (IFN)
Prime power for stationary emergency (3E)	Emergency service, ICXN	Load factor: ≤ 85%, operating hours: max. 500/year, overload capability: 10% (ICXN)
Data center continuous power (3F)	Heavy duty for DCP, unrestricted, ICXN	Load factor: ≤ 100%, operating hours: unrestricted, overload capability: 10% (ICXN)

Power definition according to ISO 3046 (ratings also correspond to SAE J 1995 and SAE J 1349 standard conditions). Consult your **mtu** distributor 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.

Standby power (3D)

Engine type	Rated power kW (bhp) at	Optimization			
		1500 rpm (50Hz)	24	31	36
	1500 rpm (50Hz)	x	24	31	36
12V 4000 G74F	1575 (2112)	x	x	x*	
12V 4000 G84F	1750 (2347)	x	x	x*	
12V 4000 G94F	1930 (2588)	x	x		x
16V 4000 G74F	1965 (2635)	x	x	x*	
16V 4000 G84F	2185 (2930)	x	x	x*	
16V 4000 G94F	2387 (3201)	x	x		x
20V 4000 G64F	2420 (3245)	x	x	x*	
20V 4000 G74F	2670 (3580)	x	x	x*	
20V 4000 G84F	2850 (3822)	x	x	x*	
20V 4000 G94F	3088 (4141)	x	x		x
20V 4000 G94LF	3308 (4436)	x	x		x
	1800 rpm (60Hz)	x	3	19	
12V 4000 G74S	1736 (2328)	x	x	x	
12V 4000 G84S	1910 (2561)	x	x	x	
16V 4000 G74S	2280 (3058)	x	x	x	
16V 4000 G84S	2500 (3352)	x	x	x	
16V 4000 G94S	2740 (3674)	x	x	x	
20V 4000 G64S	2740 (3674)	x	x	x	
20V 4000 G74S	3010 (4036)	x	x	x	
20V 4000 G94S	3490 (4680)	x	x	x	

Fan power requirement not considered, reference to emission level in price list

- x Fuel consumption optimized
- 3 US EPA Nonroad Tier 2 stationary (40 CFR 60)
- 19 US EPA Nonroad Tier 2 compliant (40 CFR 89)
- 24 NEA Singapore for ORDE, compliant EPA Tier 2
- 31 China NRMM Stage III (GB20981-2014)
- 36 US EPA Nonroad Tier 2 compliant
- * Emission certification in progress

Prime power for stationary emergency (3E)

Engine type	Rated power kW (bhp) at	Optimization				
		x	1	24	31	36
	1500 rpm (50Hz)	x	1	24	31	36
12V 4000 G14F	1420 (1904)	x	x	x	x*	
12V 4000 G24F	1575 (2112)	x	x	x	x*	
12V 4000 G34F	1755 (2353)	x		x		x
16V 4000 G14F	1798 (2411)	x	x	x	x*	
16V 4000 G24F	1965 (2635)	x	x	x	x*	
16V 4000 G34F	2170 (2910)	x		x		x
20V 4000 G14F	2200 (2950)	x	x	x	x*	
20V 4000 G24F	2420 (3245)	x	x	x	x*	
20V 4000 G34F	2590 (3473)	x	x	x	x*	
20V 4000 G44LF	3007 (4032)	x		x		x
	1800 rpm (60Hz)	3				
12V 4000 G14S	1520 (2038)	x				
12V 4000 G24S	1736 (2328)	x				
16V 4000 G14S	2020 (2709)	x				
16V 4000 G24S	2280 (3058)	x				
20V 4000 G14S	2490 (3339)	x				
20V 4000 G24S	2740 (3674)	x				
20V 4000 G44S	3010 (4036)	x				

Fan power requirement not considered, reference to emission level in price list

x Fuel consumption optimized

1 NOx emission optimized

3 US EPA Stationary EMERG Tier 2 (40 CFR 60)

24 NEA Singapore for ORDE, compliant EPA Tier 2

31 China NRMM Stage III (GB20981-2014)

36 US EPA Nonroad Tier 2 compliant

* Emission certification in progress

Data center continuous power (3F)

Engine type	Rated power kW (bhp) at	Optimization				
		x	1	24	31	36
	1500 rpm (50Hz)	x	1	24	31	36
12V 4000 G14F	1420 (1904)	x	x	x	x*	
12V 4000 G24F	1575 (2112)	x	x	x	x*	
12V 4000 G34F	1755 (2353)	x		x		x
16V 4000 G14F	1798 (2411)	x	x	x	x*	
16V 4000 G24F	1965 (2635)	x	x	x	x*	
16V 4000 G34F	2170 (2910)	x		x		x
20V 4000 G14F	2200 (2950)	x	x	x	x*	
20V 4000 G24F	2420 (3245)	x	x	x	x*	
20V 4000 G34F	2590 (3473)	x	x	x	x*	
20V 4000 G44F	2807 (3764)	x		x		x
20V 4000 G44LF	3007 (4032)	x		x		x
	1800 rpm (60Hz)	x	3	19		
12V 4000 G14S	1520 (2038)	x	x	x		
12V 4000 G24S	1736 (2328)	x	x	x		
16V 4000 G14S	2020 (2709)	x	x	x		
16V 4000 G24S	2280 (3058)	x	x	x		
20V 4000 G14S	2490 (3339)	x	x	x		
20V 4000 G24S	2740 (3674)	x	x	x		
20V 4000 G44S	3010 (4036)	x	x	x		

Fan power requirement not considered, reference to emission level in price list

x Fuel consumption optimized

1 NOx emission optimized

3 US EPA Stationary EMERG Tier 2 (40 CFR 60)

19 US EPA Nonroad Tier 2 compliant (40 CFR 89)

24 NEA Singapore for ORDE, compliant EPA Tier 2

31 China NRMM Stage III (GB20981-2014)

* Emission certification in progress

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 and 3F)
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, thermostat 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)

Customization possible. Engines illustrated in this document may feature options not fitted as standard. For more information please contact your **mtu** dealer.