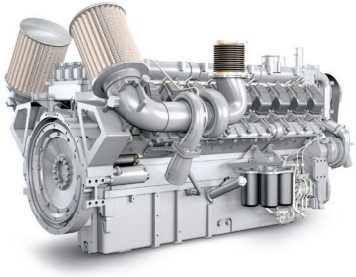
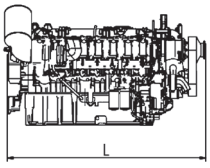
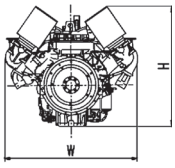
Gendrive

SERIES 2000 GX6

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







Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
12V	2086 x 1522 x 1470 (82 x 60 x 58)	2640 (5820)
16V	2436 x 1570 x 1420 (96 x 62 x 56)	3100 (6834)
18V	2611 x 1572 x 1420 (103 x 62 x 56)	3320 (7319)

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

Engine model		
Bore/stroke	mm (in)	135/156 (5.3/6.15)
Cylinder configuration		90°V
Displacement	l (cu in)	2.23 (136)
Displacement, total	l (cu in)	12V: 26.76 (1633), 16V: 35.68 (2177), 18V: 40.14 (2450)
Fuel specification		EN 590, Grade No.1-D/2-D (ASTM D975-00)

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: 10% capability (ICXN)
Data center continuous power (3F)	Heavy duty for DCP, unrestricted, ICXN	Load factor: ≤ 100%, operating hours: unrestricted, overload: 10% capability (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.

A Rolls-Royce solution

Standby power (3D)

Engine type	Rated power kW (bhp) at	Optimization				
	1500 rpm (50Hz)	x	1	24	31	36
12V 2000 G76F	732 (982)		x	x	x	x
12V 2000 G86F	887 (1189)	x				
16V 2000 G76F	979 (1313)		x	x	x	x
16V 2000 G86F	1100 (1475)	x				
18V 2000 G76F	1235 (1656)	x				
	1800 rpm (60Hz)	x	3	19		
18V 2000 G76S	1371 (1839)	x	x	x		

Fan power requirement not considered, reference to emission level in price list
x Fuel consumption optimized
1 NOx emission optimized (NOx < 2000 mg/m³$_N$/7%O$_2$)
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
31 China NRMM Stage III (GB20981-2014)
36 US EPA Nonroad Tier 2 compliant

Prime power for stationary emergency (3E)

Engine type	Rated power kW (bhp) at	Optimization				
	1500 rpm (50Hz)	x	1	24	31	36
12V 2000 G16F	665 (892)	x	x	x	x	x
12V 2000 G26F	709 (951)	x	x	x	x	x
16V 2000 G16F	806 (1081)	x	x	x	x	x
16V 2000 G26F	890 (1194)	x	x	x	x	x
16V 2000 G36F	1000 (1341)	x	x	x	x	x
18V 2000 G26F	1102 (1478)	x	x	x	x	x

Fan power requirement not considered, reference to emission level in price list
x Fuel consumption optimized
1 NOx emission optimized (NOx < 2000 mg/m³$_N$/7%O$_2$)
24 NEA Singapore for ORDE
31 China NRMM Stage III (GB20981-2014)
36 US EPA Nonroad Tier 2 compliant

Data center continuous power (3F)

Engine type	Rated power kW (bhp) at	Optimization				
	1500 rpm (50Hz)	x	1	24	31	36
16V 2000 G26F	890 (1194)	x	x	x	x	x
18V 2000 G26F	1102 (1478)	x	x	x	x	x

Fan power requirement not considered, reference to emission level in price list
x Fuel consumption optimized
1 NOx emission optimized (NOx < 2000 mg/m³$_N$/7%O$_2$)
24 NEA Singapore for ORDE
31 China NRMM Stage III (GB20981-2014)
36 US EPA Nonroad Tier 2 compliant

Standard equipment	
Starting system	1 electric starter (24 VDC/2-pole)
Fuel system	Electronically controlled common-rail high-pressure injection system, dual engine mounted fuel filters
Lube oil system	Forced feed lubrication system with piston cooling, lube oil circulation pump, lube oil filter, lube oil heat exchanger
Combustion air system	2 exhaust turbochargers, air-to-air intercooler integrated in radiator
Cooling system	Coolant circulation pump and coolant thermostat for jacket water circuit, engine mounted fan drive, direct engine mounted radiator for jacket water and charge air cooling circuit with integrated expansion tank
Engine mounting	Set of engine mounting brackets for resilient mount
Engine management	Integrated electronic engine control and monitoring system ADEC, customer interface „Smart Connect“

Optional equipment	
Starting system	Hydraulic, compressed air, redundant starting system: electric/electric; air/air; electric/air; electric/hydraulic; air/hydraulic
Fuel system	Fuel pre-filter, special fuel pre-filter with water separator
Combustion air system	Heavy duty air filters
Cooling system	Radiator for different ambient temperatures and duct requirements
Engine mounting	Resilient engine mounts (rubber elements), rigid engine mounting
Auxiliary power supply	Battery charging alternator

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.

Subject to change. | 3239201 | Edition 01/21 | ESM 2021-01.