

Gendrive

# Series 1600 Gx0

for Power Generation Continuous/Prime/Peak Applications  
with air-to-air charge air cooling



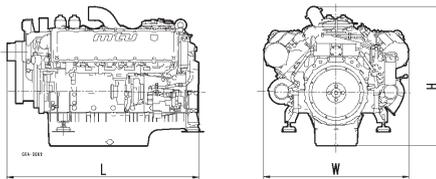
## Dimensions and Masses

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
10V	1598 x 1318 x 1327 (63 x 52 x 52)	1694 (3735)*
12V	1763 x 1318 x 1327 (69 x 52 x 52)	1855 (4090)*

All dimensions are approximate, for complete information refer to the installation drawing. \* Guided value

## Engine Model

Bore/stroke	mm (in)	122/150 (4.8/5.9)
Cylinder configuration		10/12 Cyl. - 90°V
Displacement/cylinder	l (cu in)	1.75 (107)
Displacement, total	l (cu in)	10V: 17.5 (1068), 12V: 21.0 (1282)
Fuel specification		EN 590, Grade No.1-D/2-D (ASTM D975-00)



Application group	Power definition	
Prime (3B)	Continuous service, variable load, ICXN	Load factor: ≤ 75%, Operating hours: unrestricted, Overload: 10% capability (ICXN)
Prime Power Limited (3C)	Intermittent service, ICXN	Load factor: ≤ 75%, Operating hours: max. 1000 h per year, 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/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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## Prime (3B)

Engine Type	Rated power kW (bhp) at 1500 rpm (50Hz)	Optimization				
		☒	①	⑧	⑳	㉕
		Fuel consumption optimized	TA-Luft optimized (NOx < 1500 mg/m <sup>3</sup> <sub>N</sub> )	EU Nonroad Stage IIIA (97/68/EC)	NEA Singapore for ORDE	MoEF India/ CPCB Stage II
10V 1600 G10F	407 (546)	x	x	x	x	x
10V 1600 G20F	448 (601)	x	x	x	x	x
12V 1600 G10F	524 (703)	x	x		x	x <sup>1)</sup>
12V 1600 G20F	576 (772)	x	x		x	x <sup>1)</sup>

Fan power requirement not considered

1) available Q4/2018, for details please contact your sales partner

Engine Type	Rated power kW (bhp) at 1800 rpm (60Hz)	Optimization	
		☒	⑱
		Fuel consumption optimized	US EPA Nonroad Tier 2 compliant (40 CFR 89)
10V 1600 G10S	465 (624)	x	
10V 1600 G20S	511 (685)		x
12V 1600 G10S	561 (752)		x
12V 1600 G20S	608 (815)		x

Fan power requirement not considered

☒ ① ⑧ ⑱ ㉕ reference to emission level in price list

Prime (3B)

Engine Type	Rated power kW (bhp) at 1500/1800 rpm (50/60Hz), switchable, for rental markets	Optimization	
		☒	
		Fuel consumption optimized	
10V 1600 B40S	448/511 (601/685)	x	
12V 1600 B30S	524/561 (703/752)	x	
12V 1600 B40S	576/608 (772/815)	x	

Fan power requirement not considered

☒ reference to emission level in price list

Prime Power Limited (3C)

Engine Type	Rated power kW(bhp) at 1500 rpm (50Hz)	Optimization		
		☒	①	⑧
		Fuel consumption optimized	TA-Luft optimized (NOx < 1500 mg/m <sup>3</sup> <sub>N</sub> )	EU Nonroad Stage IIIA (97/68/EC)
10V 1600 G40F	407 (546)	x	x	x
10V 1600 G50F	448 (601)	x	x	x
12V 1600 G40F	524 (703)	x	x	
12V 1600 G50F	576 (772)	x	x	

Fan power requirement not considered

☒ ① ⑧ reference to emission level in price list

Standard Equipment	
Starting System	1 electric starter (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 filter, lube oil heat exchanger
Combustion Air System	Exhaust turbochargers, intercooler - integrated in radiator
Cooling System	Coolant circulation pump and coolant thermostat for jacket water cooling circuit, engine mounted fan drive, front type radiator for jacket water and charge air cooling circuit with integrated expansion tank
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	10V, 12V: Redundant starting system electric; electric/electric
Fuel System	Fuel pre-filter, special pre-filter with water separator
Lube Oil System	Hand pump for oil extraction
Combustion Air System	Heavy duty air filters
Cooling System	Radiator for different ambient temperatures and duct requirements
Engine Mounting	Resilient engine mounts fixed height, resilient engine mounts height adjustable, rigid engine mounting

## 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. For more information please contact your MTU dealer.