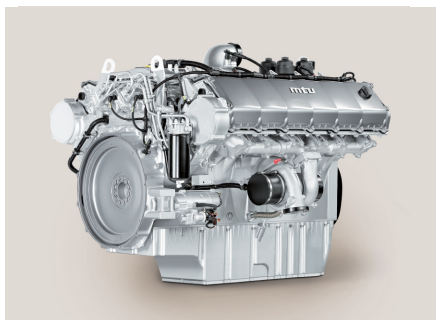


Gendrive

# Series 1600 Gx0

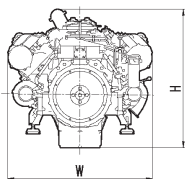
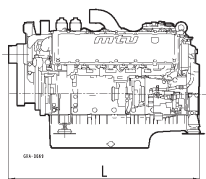
for Power Generation Standard Backup Applications  
with air-to-air charge air cooling



## Dimensions and Masses

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
6R	1535 x 920 x 1185 (60 x 36 x 47)	1272 (2804)
8V	1375 x 1235 x 1225 (54 x 49 x 48)	1519 (3349)
10V	1550 x 1258 x 1188 (61 x 50 x 47)	1827 (4028)
12V	1715 x 1274 x 1188 (68 x 50 x 47)	2145 (4729)

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



Engine Model		
Bore/stroke	mm (in)	122/150 (4.8/5.9)
Cylinder configuration		6 Cyl. - In Line; 8/10/12 Cyl. - 90°V
Displacement/cylinder	l (cu in)	1.75 (107)
Displacement, total	l (cu in)	6R: 10.5 (641), 8V: 14.0 (854), 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	
Standby Power (3D)	Emergency service, fuel stop power, IFN	Load factor: ≤ 85%, Operating hours: max. 500/year, Overload: 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.**



Power. Passion. Partnership.

## Standby Power (3D)

Engine Type	Rated power kW (bhp) at 1500 rpm (50Hz)	Optimization			
		☒	⑧	⑳	㉕
		Fuel consumption optimized	EU Nonroad Stage IIIA (97/68/EC)	NEA Singapore for ORDE	MoEF India/ CPCB Stage II
6R 1600 G70F	274 (367)	x	x	x	x
6R 1600 G80F	301 (404)	x	x	x	x
8V 1600 G70F	358 (480)	x	x	x	x
8V 1600 G80F	394 (528)	x	x	x	x
10V 1600 G70F	448 (601)	x	x	x	x
10V 1600 G80F	493 (661)	x	x		x
12V 1600 G70F	576 (772)	x		x	
12V 1600 G80F	634 (850)	x		x	

Fan power requirement not considered

Engine Type	Rated power kW (bhp) at 1800 rpm (60Hz)	Optimization			
		⑲	③	⑳	⑦
		US EPA Nonroad Tier 2 compliant (40 CFR 89)	US EPA Stationary EMERG Tier 2 (40 CFR 60)	US EPA Nonroad Tier 3 compliant (40 CFR 89)	US EPA Stationary EMERG Tier 3 (40 CFR 60)
6R 1600 G70S	312 (418)			x	x
6R 1600 G80S	343 (460)			x	x
8V 1600 G70S	408 (547)			x	x
8V 1600 G80S	448 (601)			x	x
10V 1600 G70S	511 (685)			x	x
10V 1600 G80S	561 (752)	x	x		
12V 1600 G70S	613 (822)	x	x		
12V 1600 G80S	668 (896)	x	x		

Fan power requirement not considered

☒ ③ ⑦ ⑧ ⑲ ⑳ ㉔ ㉕ 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.