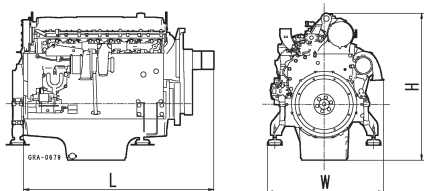


Gendrive

Series 6R 1600 G_0

for Generator Drive Application with Air Charge-Air Cooling



Dimensions and Masses

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
6R 1600	1535x920x1185 (60.4x36.2x46.7)	1150 (2535)

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
Displacement/cylinder	l (cu in)	1.75 (107)
Displacement, total	l (cu in)	10.5 (641)
Fuel specification		EN 590, Grade No.1-D/2-D (ASTM D975-00)

Reference conditions:

> Intake-air temperature: 25°C (77°F) > Ambient air pressure: 1000 mbar > Altitude above sea level: 100 m
Subject to change without notice. Customization possible. Engines illustrated in this document may feature options not fitted as standard.

Application Group	Prime Power 3B	Prime Power limited 3C	Standby Power 3D
Optimization	<input checked="" type="checkbox"/> ① ⑧ ⑫	<input checked="" type="checkbox"/> ① ⑧	<input checked="" type="checkbox"/> ⑧ ⑫
Engine type	Rated Power kW (bhp) at 1500 rpm - (50 Hz)		
6R 1600 G10F	249 (334)	-	-
6R 1600 G20F	274 (367)	-	-
6R 1600 G40F	-	249 (334)	-
6R 1600 G50F	-	274 (367)	-
6R 1600 G70F	-	-	274 (367)
6R 1600 G80F	-	-	301 (404)
Optimization	<input checked="" type="checkbox"/> ①* ⑧		
Engine type	Rated Power kW (bhp) at 1500 rpm - (50 Hz), for rental markets		
6R 1600 B50F	274 (367)	-	-

Optimization: Fuel consumption

⑧ Exhaust emission (EU 97/68 EC Stage III A)

① Exhaust emission (TA-Luft optimized 1500)

⑫ Exhaust emission ARAI/2004

* only for export outside EU



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Application Group	Prime Power 3B	Prime Power limited 3C	Standby Power 3D
Optimization	⑦ ⑳		⑦ ⑳
Engine type	Rated Power kW (bhp) at 1800 rpm - (60 Hz)		
6R 1600 G10S	284 (381)	-	-
6R 1600 G20S	312 (418)	-	-
6R 1600 G70S	-	-	312 (418)
6R 1600 G80S	-	-	343 (460)

Optimization	☒
Engine type	Rated Power kW (bhp) 1800/1500 rpm - 60/50 Hz, switchable, for rental markets
6R 1600 B30S	284/249 (381/334)
6R 1600 B40S	312/274 (418/367)

Optimization: ☒ Fuel consumption
 ** Not allowed to be operated in the USA

⑦ Exhaust emission (EPA 40 CFR 89/Tier 3) stationary emergency
 ⑳ Exhaust emission (EPA 40 CFR 89/Tier 3) compliant **

Application	Power definition	
3B	Continuous operation w/ variable load	Load factor: < 75%, Operating hours: unrestricted, Overload: 10% capability (ICXN)
3C	Standby operation w/ variable load	Load factor: < 75%, Operating hours: max. 1000 p/y, Overload: 10% capability (ICXN)
3D	Standby operation w/ variable load	Load factor: < 85%, Operating hours: max. 500 p/y, Overload: Fuel stop power (IFN)

Power output within 5% tolerance at standard conditions. 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.

Standard Equipment	
Starting System	Single electric starter 24 VDC/2-pole
Lube Oil System	Forced feed lubricating system with piston cooling, lube oil circulation pump, multi stage oil filter, lube oil heat exch.
Fuel Oil System	Common-rail fuel injection system with low and high pressure fuel pumps, fuel pressure accumulator and electronically controlled injection
Cooling System	Coolant circulating pump and coolant thermostat for jacket water circuit, engine mounted fan drive, front type radiator for jacket water and charge air
Combustion Air System	1 exhaust turbocharger, air-to-air intercooler integrated in radiator, charge-air pipe with dry type air filter
Engine Mounting	Set of engine mounting brackets for resilient mount
Flywheel housing/Flywheel	SAE 1/SAE 14
Electronics and Instrumentation	Integrated electronic engine control and monitoring system ADEC

Optional Equipment	
Starting System	Redundant starting system electric/air; electric/electric; air/air
Fuel Oil System	Fuel pre-filter, special pre-filter with water separator
Cooling System	Radiators for different ambient temperatures and duct requirements
Combustion Air System	Heavy duty air filters
Engine Mounting	Resilient engine mounts, rigid engine mounting
Flywheel housing/Flywheel	SAE 2/SAE 11,5
Electronics and Instrumentation	Peripheral interface modules, suitable for installation in switchgear cabinet