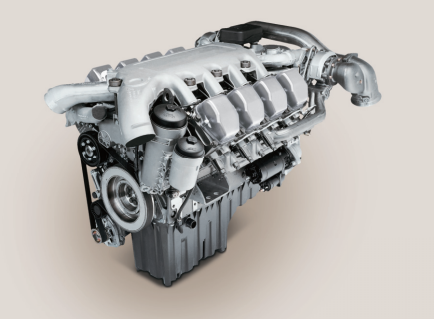
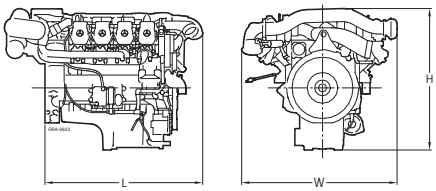
PowerGen

Series 500

for Stationary Industrial Applications with EPA 2/EC II Certification





Dimensions and Masses

Engine	Dimensions LxWxH mm (in)	Mass, dry kg (lbs)
501 S	1190x1020x1130 (47x40x44)	885 (1951)
502 S	1530x1195x1080 (60x47x43)	1125 (2480)

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

Engine Model		
Bore/stroke	mm (in)	130/150 (5.1/5.9)
Cylinder configuration		90° V
Displacement/cylinder	l (cu in)	1.99 (121)
Displacement, total	l (cu in)	501: 12.0 (732), 502: 15.9 (970)
Fuel specification		EN 590, Grade No.1-D/2-D

Engine Type	Rated Power ICFN kW	bhp	rpm	Peak Torque Nm	lb-ft	rpm
Optimization	③⑤					
Application	**Heavy/Medium duty operation (4A/4B)**					
6V 501 S	260	349	1800	1730	1275	1080
	290	389	1800	1850	1365	1080
	315	422	1800	2000	1475	1080
8V 502 S	330	442	1800	2150	1585	1200
	350	469	1800	2300	1695	1200
	350	469	2000	2100	1550	1200
	380	510	1800	2400	1770	1200
	420	563	1800	2700	1990	1200
	448 #	600	1800	2700	1990	1200

Optimization: ③ Exhaust emission EPA 40 CFR 89/Tier 2 ⑤ Exhaust emission EU 97/68 EC/Stage II
Limited release only; please contact your MTU distributor or dealer.

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Application	Power Definition	
4A	Continuous operation w/100% load	Load factor: ≥ 60%, Operating hours: unrestricted, Overload: Fuel stop (ICFN)
4B	Continuous operation w/variable load	Load factor: < 60%, Operating hours: unrestricted, Overload: Fuel stop (ICFN)

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.

Standard Equipment	
Starting System	Electrical starter 24 V, Alternator 28V/80 A
Fuel System	High pressure fuel injection with solenoid-valve controlled unit injection pumps and multi-jet fuel injectors, Fuel filter
Lube Oil System	Oil filter
Air System	Turbocharging with charge-air cooling
Exhaust Gas System	Four valves per cylinder
Cooling System	Water-charge-air cooling
Flywheel/Housing	SAE 1
Engine Mounting	Resilient
Electronics and Instrumentation	Electronic engine management

Optional Equipment	
	On request

Reference conditions:
> Intake-air temperature: 25°C (77°F) > Ambient air pressure: 1000 mbar (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 to standard engine.

Subject to change. | 3231911 | Edition 01/14 | VMC 2014-01.

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