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Ratings

RPM	Gross Engine Output		
	COP kWm	PRP kWm	ESP kWm
1500	368	407	447

Basic data

Engine model	6M26G500/5
N° of Cylinders / Valves	6 / 24
Cylinders arrangement	In line
Bore x Stroke (mm)	150 x 150
Displacement (L)	15.9
Thermodynamic Cycle	Diesel 4 stroke
Cooling System	Liquid (water + 50% antifreeze)
Injection System	Direct
Fuel System	Mechanical Pump
Aspiration	Turbocharged and Aftercooled
Compression ratio	15.7 : 1
Flywheel housing	SAE 1
Flywheel	14"
N° of teeth on flywheel ring gear	178
Inertia of flywheel (kg/m²)	4.64
Inertia of crankshaft (kg/m²)	1.02
Emission standard	N/A
Overall Dimensions with radiator (Length x Width x Height) (mm)	2802 x 1340 x 1764
Engine dry weight (kg)	2300
Engine wet weight (includes oil, coolant) (kg)	2454

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Air intake system

Air intake temperature rise (°C)	≤ 5
Air intake restriction clean filter (mBar)	≤ 30
Air intake restriction dirty filter (mBar)	≤ 65
Recommended air flow @ PRP (m³/min)	30.7
Recommended air flow @ ESP (m³/min)	33
Min. diameter of intake pipe (mm)	140

Intercooling system

Intercooler heat dissipating capacity @ PRP (kJ/s)	79.7
Intercooler heat dissipating capacity @ ESP (kJ/s)	96
Max. intake temperature @ 25°C ambient temperature (°C)	60
Max. difference between intake temperature and ambient temperature (°C)	≤ 21
Max. intake pressure drop of intercooler (mBar)	150

Cooling system

System designed for ambient temperature up to (°C)	50
Min. inside diameter of coolant outlet pipe (mm)	84
Coolant capacity of radiator and pipes (L)	63
Coolant alarm (shutdown) temperature (°C)	103
Thermostat opening temperature / full open temperature (°C)	77 / 87
Min. pressure in cooling system (Bar)	0.5
Coolant capacity of the engine (L)	38.7

Exhaust system

Max. exhaust back pressure (mBar)	75
Max. exhaust temperature before turbocharger (°C)	≤ 750
Max. exhaust temperature after turbocharger (°C)	≤ 550
Exhaust flow @ PRP (m³/min)	104.5
Exhaust flow @ ESP (m³/min)	112.3
Min. diameter of exhaust pipe (mm)	200
Max. bending moment of exhaust gas exit flange (Nm)	10

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Lubrication system

Oil capacity Low / High (L)	30 / 52
Oil pressure in normal condition idle speed (Bar)	≥ 2
Oil pressure in normal condition at 1500 Rpm (Bar)	4 - 6.5
Lowest oil pressure alarm (shutdown) (Bar)	2
Max. oil temperature (°C)	105
Oil flow (L/min)	≥ 176
Oil fuel consumption ratio based on engine fuel consumption data	$\leq 0.3 \%$
Total system capacity (including filters) (L)	55

Noise

Diesel engine noise (Acoustic power level) (dB(A))	115.7
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Fuel system

Governor	Electronic
Max. restriction at fuel pump inlet (Bar)	0.5
Max. fuel return restriction (Bar)	0.5
Max. fuel inlet temperature (°C)	70
Fuel supply flow (L/hr)	200
Min. pressure of fuel pump (Bar)	1.3
Min. diameter of inlet pipe (mm)	14
Min. diameter of return pipe (mm)	12

Electrical system

Electrical system voltage (negative to ground) (Vdc)	24
Starter power (kW)	8.5
Battery charger current (A)	55
Max. electric resistance of starting circuit (Ω)	0.008
Min. sectional area of wire (mm ²)	70
Min. cold start temperature without auxiliary starting device (°C)	0
Min. cold start temperature with auxiliary starting device (°C)	- 10

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Heat balance test data (with ambient temperature 28 °C)

Total heat dissipation @ ESP (kJ/s) 700.3

Performance data

Mean Piston Speed (m/s) 7.5
 BMEP (Bar) 22.49
 Fan absorbed power (kW) 28.5

Fuel consumption

Rating	gr/kWh	L/hr
100% ESP	198.7	105.6
100% PRP	196.2	94.8
75% PRP	196.5	71.2
50% PRP	206	49.9
25% PRP	227.5	27.5
Fuel consumption tolerance + 3 %		

Ratings definitions

Emergency Standby Power (ESP)

Emergency Standby Power is the maximum power available for a varying load for the duration of a main power network failure. The average load factor over 24 hours of operation should not exceed 70% of the engine's ESP power rating. Typical operational hours of the engine is 200 hours per year, with a maximum usage of 500 hours per year. This includes an annual maximum of 25 hours per year at the ESP power rating. No overload capability is allowed. The engine is not to be used for sustained utility paralleling applications.

Prime Power (PRP)

Prime Power is the maximum power available for unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's PRP power rating during any 24 hour period. An overload capability of 10% is available, however, this is limited to 1 hour within every 12 hour period.

Continuous Power (COP)

Continuous Power is the maximum power available for an unlimited period of use at a constant load factor. No overload capability is allowed.

- 1) All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of $\pm 5\%$.
- 2) Test conditions : 100 kPa, 25°C air inlet temperature, relative humidity of 30%, with fuel density 0.84 kg/L. Derating may be required for conditions outside these; please contact the factory for details.
- 3) Power output curves are based on the engine operating with fuel are battery charging alternator, fan and optional equipment.

I pump; not included