

12M33

PowerKit Natural Gas Engine





Bore x Stroke (mm)150 x 185Displacement (L)39.2N° of Cylinders12Cylinders ArrangementAt VeeFuel SystemOpen Chamber / Lean BurnGovernor (Gov.)ECUAspiration (Asp.)T/A-W

Customer benefits

Low emission standard, lean burn technology resulting in lower NOx emissions High transient and block load capabilities Full duty cycle capability, from prime to continuous power Electronically controlled high efficiency engines

Gas Engine		Gross Engine Output		Typical Generator Output					
Model	Speed Rpm	COP Power kWm	PRP Power kWm	COP Power		PRP Power		Asp	Gov
				kWe	kVA	kWe	kVA		
12M33G10N0/5	1500	765	900	680	850	800	1000	T/A-W	ECU
12M33G14N0/6	1800	816	960	720	900	850	1063	T/A-W	ECU

Aspiration : T/A-A = Turbocharged & Air-to-Air Aftercooled

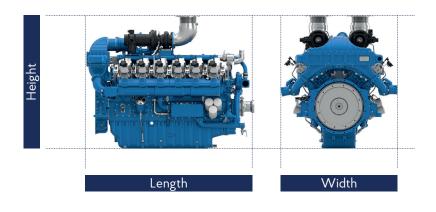
Standard equipment

Engine and block	Cast iron cylinder block with inspection door per cylinder Cast iron cylinder liners, wet type and replaceable valves guides and seats Hardened steel forged crankshaft with induction hardened journals, crankpins and radius Lube oil cooled light alloy pistons with high performance piston rings
Cooling system	Thermostatically-controlled system with belt driven coolant pump
Lubrication system	Full flow screw able oil filters Lube oil purifier with replaceable cartridge Water cooled lube oil cooler
Fuel system	Low Pressure gas supply – open chamber combustion Optimum performance and efficient use of fuel for COP, CHP and PRP applications
Air intake and exhaust system	Top-mounted turbocharger optimized for gen-set application Special rear mounted air filter with restriction indicator Exhaust manifold and turbocharger shield for heat isolating
Electrical system	24V DC electric starter motor and battery charging alternator Low oil pressure & high water temperature sensors
Flywheel and housing	SAE 0 flywheel housing and 18" flywheel



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Dimensions and dry weight (mm/kg)



Diesel Ei	ngine	Dimensions and dry weights including radiator					
Model	Model	L (mm)	W (mm)	H (mm)	Weight (Kg)		
12M33G10N0/5	1500	2164	1497	1710	3390		
12M33G14N0/6	1800	2164	1497	1710	3390		

Ratings definitions

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.

Unlimited Prime Rated 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.

- 1) All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of ±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 system, water pump and lubricating oil pump; not included are battery charging alternator, fan and optional equipment.