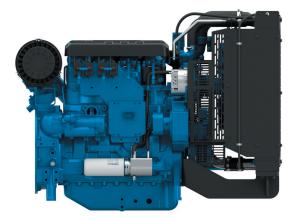
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## **4M11** PowerKit Natural Gas Engine



Bore x Stroke (mm)	105 x 130
Displacement (L)	4.5
N° of Cylinders	4
Cylinders Arrangement	In line
Fuel System	Open Chamber / Lean Burn
Governor (Gov.)	ECU
Aspiration (Asp.)	T/A-A

#### 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 Low energy fuel capability (landfill & biogas) Electronically controlled high efficiency engines

Gas E	ngine	Gross Engi	ne Output	Тур	Typical Generator Output				
Model Speed Rpm		COP Power		COP Power		PRP Power		Asp	Gov
		kWm	kWm	kWe	kVA	kWe	kVA		
4M11G4N0/5	1500	60	70	50	63	60	75	T/A-A	ECU
4M11G4N0/6	1800	60	70	50	63	60	75	T/A-A	ECU

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

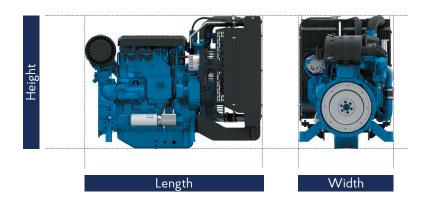
### Standard equipment

Engine and block	Cast iron gantry type structure block One-piece forged crankshaft Separate cast iron cylinder heads and wet liners Aluminum alloy pistons with oil cooling gallery
Cooling system	Radiator and hoses supplied directly mounted on the engine Thermostatically-controlled system with belt driven coolant pump and pusher fan
Lubrication system	Flat bottom large capacity oil pan Spin-on full-flow lube oil filter
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 shield for heat isolating
Electrical system	12V DC electric starter motor and battery charging alternator for 1500 and 1800 RPM engines Low oil pressure & high water temperature sensors
Flywheel and housing	SAE 3 flywheel housing and 11.5" flywheel for 1500 and 1800 RPM engines



## **4M11** PowerKit Natural Gas Engine

#### Dimensions and dry weight (mm/kg)



Diesel Engine		Dimensions and dry weights including radiator			radiator
Model	Model	L (mm)	W (mm)	H (mm)	Weight (Kg)
4M11G4N0/5	1500	1375	747	1038	604
4M11G4N0/6	1800	1375	747	1038	604

## **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.