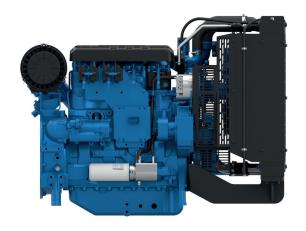




# PowerKit Natural Gas Engine



Bore x Stroke (mm)  $105 \times 130$ Displacement (L) 4.5 N° of Cylinders Cylinders Arrangement In line

Open Chamber / Lean Burn Fuel System

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 Electronically controlled high efficiency engines

Gas Engine		Gross Engine Output		Typical Generator Output					
Model	Speed Rpm	COP Power	PRP Power	COP Power		PRP Power		Asp	Gov
, ,525		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

<b>Engine and block</b> Cast iron gantry type structure block
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One-piece forged crankshaft

Separate cast iron cylinder heads and wet liners Aluminum alloy pistons with oil cooling gallery

Cooling system Radiator	r and ho	oses supplie	ied directly	y mounted on 1	the engine
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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

Special rear mounted air filter with restriction indicator

Top-mounted turbocharger optimized for gen-set application

Exhaust manifold shield for heat isolating

#### **Electrical system**

24V DC electric starter motor and battery charging alternator for 1500 and 1800 RPM engines

Low oil pressure & high water temperature sensors

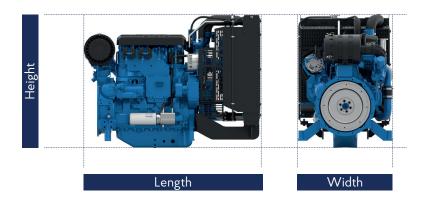
### Flywheel and housing

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					
	Model	Model	L (mm)	W (mm)	H (mm)	Weight (Kg)		
Ī	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.