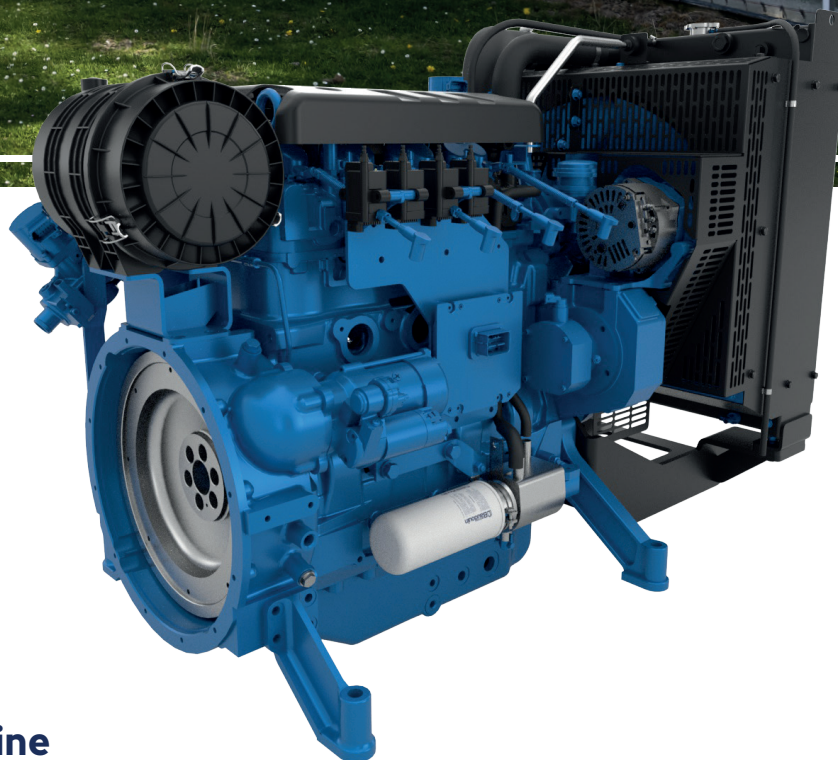
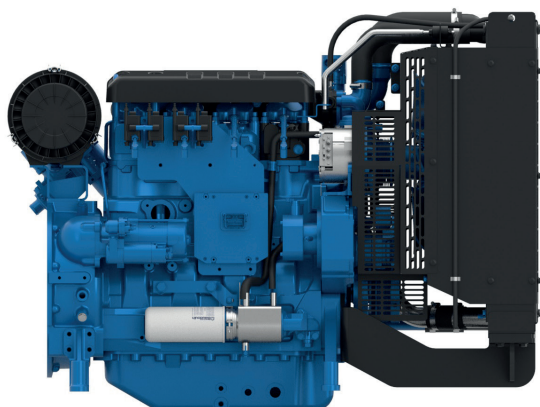




# 4M11

**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.)     | Turbocharged & air-to-air cooled |

## 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 |     |           |     | Asp   | Gov |
|------------|-----------|---------------------|---------------|--------------------------|-----|-----------|-----|-------|-----|
| Model      | Speed Rpm | COP Power kWm       | PRP Power kWm | COP Power                |     | PRP Power |     |       |     |
|            |           |                     |               | 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 |

## 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

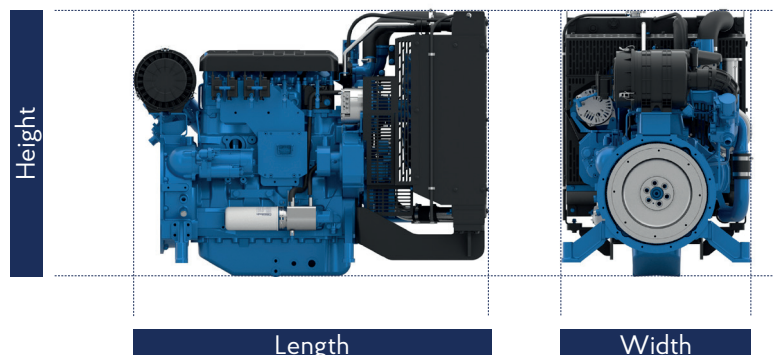
### Electrical system

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

## Dimensions and dry weight (mm/kg)



| Gas Engine |       | Dimensions and dry weights including 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  $\pm 5\%$ .
- 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 system, water pump and lubricating oil pump; not included are battery charging alternator, fan and optional equipment.