12M33
PowerKit Natural Gas Engine
**PowerKit Natural Gas Engine**

**12M33**

Bore x Stroke (mm) 150 x 185  
Displacement (L) 39.2  
N° of Cylinders 12  
Cylinders Arrangement At Vee  
Fuel System Open Chamber / Lean Burn  
Governor (Gov.) ECU  
Aspiration (Asp.) Turbocharged & air-to-water 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

### 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 screwable 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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<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th><strong>Speed</strong></th>
<th><strong>COP Power kWm</strong></th>
<th><strong>PRP Power kWm</strong></th>
<th><strong>COP COP</strong></th>
<th><strong>PRP</strong></th>
<th><strong>Asp</strong></th>
<th><strong>Gov</strong></th>
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<tbody>
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<td>1500</td>
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*Baudouin.com*
**Dimensions and dry weight (mm/kg)**

<table>
<thead>
<tr>
<th>Gas Engine</th>
<th>Dimensions and dry weights excluding radiator</th>
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<tr>
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<tr>
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</table>

**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.