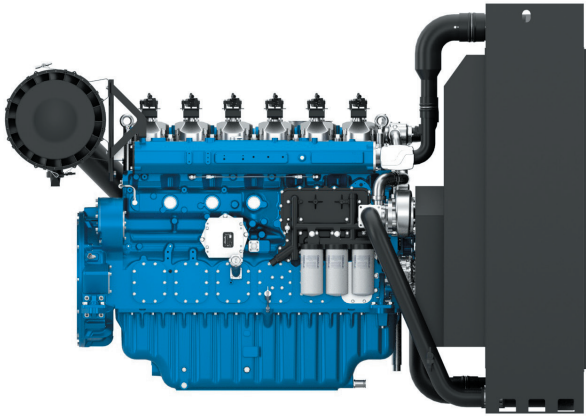


6M33

PowerKit Natural Gas Engine



| | |
|-----------------------|--------------------------|
| Bore x Stroke (mm) | 150 x 185 |
| Displacement (L) | 19.6 |
| N° of Cylinders | 6 |
| 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 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 | | |
| 6M33G6N0/5 | 1500 | 380 | 450 | 320 | 400 | 380 | 475 | T/A-A | ECU |
| 6M33G6N0/6 | 1800 | 408 | 480 | 350 | 438 | 400 | 500 | T/A-A | 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
- Separate cast iron cylinder heads with 4 valves
- Hardened steel forged crankshaft with induction hardened journals, crankpins and radius
- Lube oil cooled light alloy pistons with high performance piston rings.

Cooling system

- Radiator and hoses supplied separately
- Thermostatically-controlled system with belt driven coolant pump and pusher fan

Lubrication system

- Full flow oil filters
- 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 shield for heat isolating

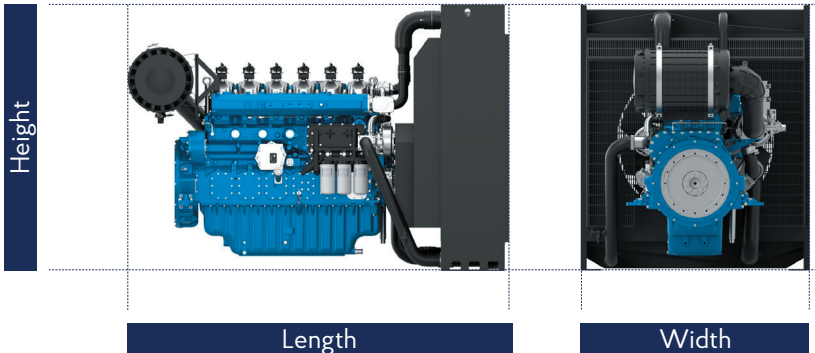
Electrical system

- 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 1 flywheel housing and 14" flywheel

Dimensions and dry weight (mm/kg)



| Diesel Engine | | Dimensions and dry weights including radiator | | | |
|---------------|-------|---|--------|--------|-------------|
| Model | Model | L (mm) | W (mm) | H (mm) | Weight (Kg) |
| 6M33G6N0/5 | 1500 | 2797 | 1680 | 1954 | 2610 |
| 6M33G6N0/6 | 1800 | 2797 | 1680 | 1954 | 2610 |

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.