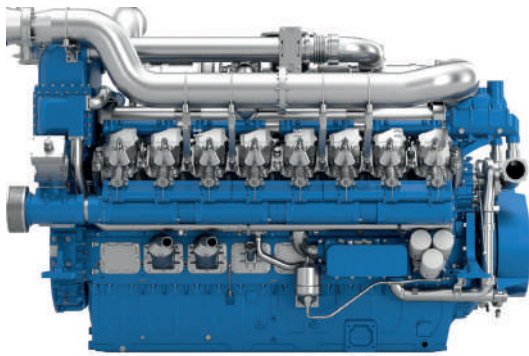


# 16M33

PowerKit Natural Gas Engine



Bore x Stroke (mm)	150 x 185
Displacement (L)	52.3
N° of Cylinders	16
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

Gas Engine		Gross Engine Output	Typical Generator Output		Asp	Gov
Model	Speed Rpm	COP Power kWm	COP Power			
			kWe	kVA		
16M33G6N0/5	1500	1280	1100	1375	T/A-W	ECU
16M33G6N0/6	1800	1280	1120	1400	T/A-W	ECU

## 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

- Two separate two separate cooling systems
- High temperature circuit equipped with thermostatically-controlled system with two gear driven coolant pumps
- Low temperature circuit equipped 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 2 compressors are feeding a single water-air intercooler, mounted over the flywheel housing, with vertical flow
- Special rear mounted air filter with restriction indicator
- Exhaust manifold and turbocharger shield for heat isolating

### Electrical system

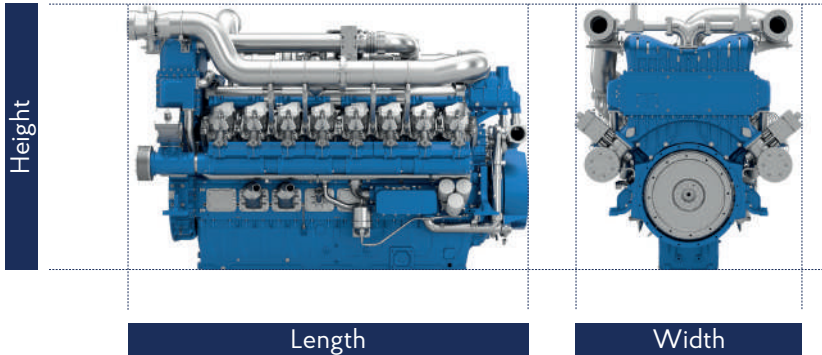
- 24V DC electric starter motors and n° 1 battery charging alternator
- Low oil pressure & high water temperature sensors

### Flywheel and housing

- SAE 0 flywheel housing and 18" flywheel



## Dimensions and dry weight (mm/kg)



Gas Engine		Dimensions and dry weights excluding radiator			
Model	Model	L (mm)	W (mm)	H (mm)	Weight (Kg)
16M33G6N0/5	1500	2781	1564	1881	5300
16M33G6N0/6	1800	2781	1564	1881	5300

## 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.