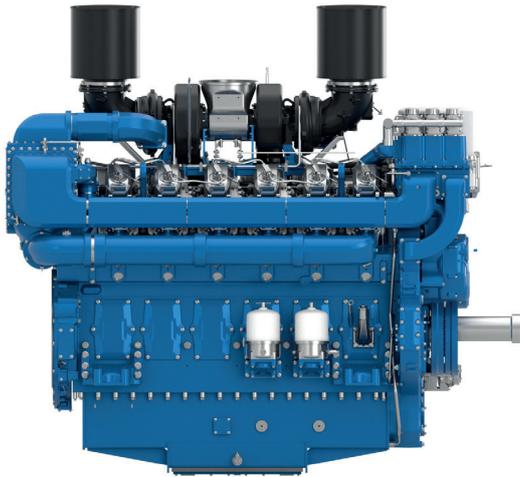


# 12M55

PowerKit Gas Engine



Bore x Stroke (mm)	180 x 215
Displacement (L)	65.6
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

Gas Engine		Gross Engine Output	Typical Generator Output		Asp.	Gov.
Model	Speed	COP Power	COP Power			
	RPM		kWm	kWe		
12M55G6N0/5	1500	1588	1400	1750	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

Radiator and hoses supplied separately  
 Two separate circuits  
 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

High pressure common rail system with one high pressure pump gear driven in the V angle of cylinder block  
 Two rails mounted on the sides of the engine, double wall, under inlet manifold  
 Duplex fine filter and water separation filter assembly with transparent cup for better efficiency  
 Electric fuel priming pump integrated in the filters support

### Air intake and exhaust system

The 2 compressors are feeding a single water-air intercooler, mounted over the exhaust system flywheel housing with vertical flow  
 Special rear mounted air filter with restriction indicator  
 Exhaust manifold and turbocharger shield for heat isolating

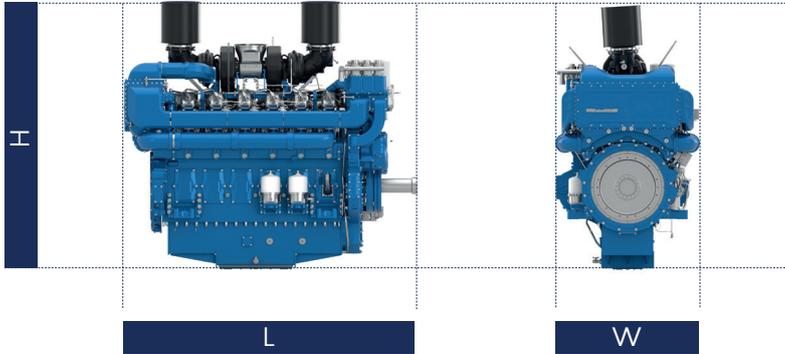
### Electrical System

2 x 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	Speed RPM	Dimensions and dry weights excluding radiator			
		L mm	W mm	H mm	Weight Kg
12M55G6N0/5	1500	3254	1794	2799	9600

**Ratings definitions**

**Emergency Standby Power (ESP)**

Emergency Standby Power is the maximum power available for a varying load for the duration of a main power network failure. The average load factor over 24 hours of operation should not exceed 70% of the engine’s ESP power rating. Typical operational hours of the engine is 200 hours per year, with a maximum usage of 500 hours per year. This includes an annual maximum of 25 hours per year at the ESP power rating. No overload capability is allowed. The engine is not to be used for sustained utility paralleling applications.

**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.

