



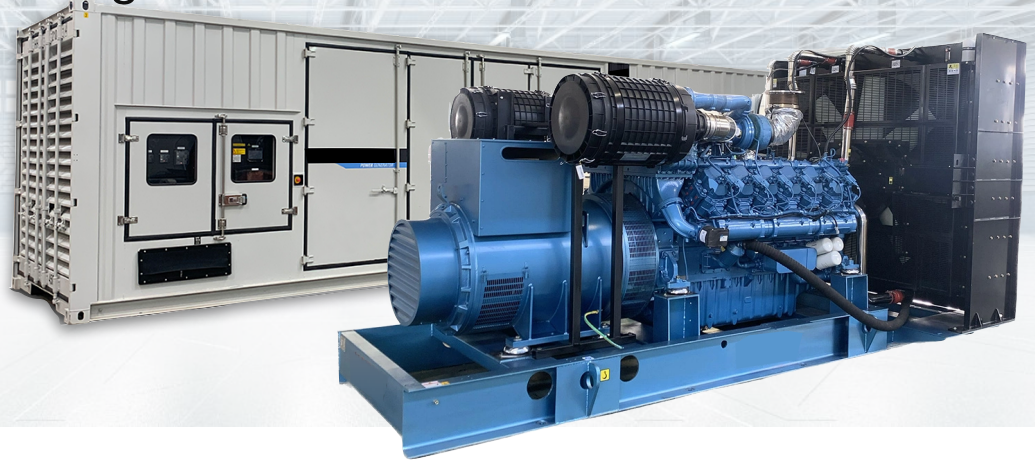
UP625B-NG

Natural gas/biogas Power generator

Power range:

50 Hz: 500– 550 kWe

60 Hz: 550– 600 kWe



Product technical features and advantages—6M33NG series

Low emission standard, lean burn technology resulting in lower NOx emissions High transient and block load capabilities

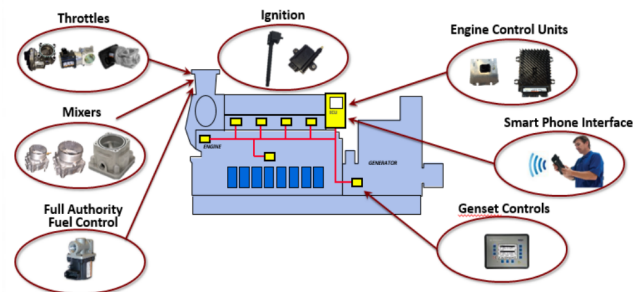
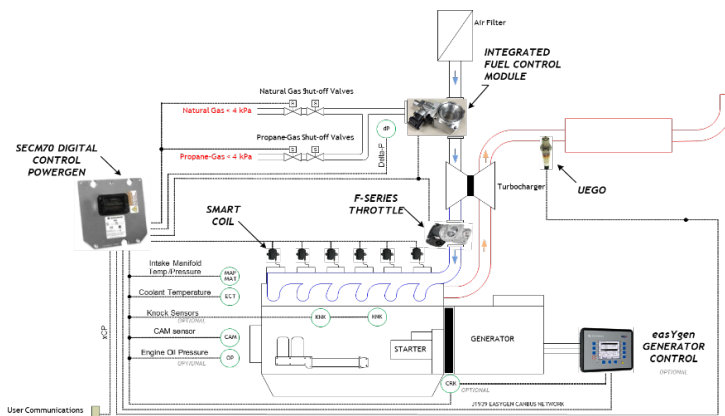
Full duty cycle capability, from prime to continuous power

Electronically controlled high efficiency engine

Engine Data

Model		12M26D605E300NG
Technology		Open chamber/ Lean Burn
Air intake method		Turbocharged & air-to-air cooled
Number of cylinders		12V
Bore size x stroke (mm)		150x150
Displacement (L)		31.8
Engine thermal efficiency		41%
Emission Standards		Stage IIIA
Fuel type		Natural Gas & Biogas
1500RPM	Common engine power (kWm)	582
	Supporting unit power (kWe)	550
1800RPM	Common engine power (kWm)	648
	Supporting unit power (kWe)	600

Adopting an international professional electronic control system, the system is mature and reliable, and can achieve precise control under all working conditions; It has complete functions such as intelligent fault diagnosis, fire monitoring, and detonation protection.



The engine has high power density, and its power per liter and BMEP have reached the international advanced level; The transient performance is good, the load loading rate is $>50\%$ at one time, and it can be added to full load in two times, meeting the performance level of G3 generator set.

Standard Equipment

Cooling System

Thermostatically-controlled system with belt driven coolant pump

Fuel system

Low pressure gas supply- open chamber combustion
Optimum performance and efficient use of fuel for COP, CHP and PRP applications

Electrical System

24V DC electric starter motor and battery charging alternator Low oil pressure & high water temperature sensors

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, crank pins and radius
Lube oil cooled light alloy pistons with high performance piston rings

Lubrication system

Full flow screwable oil filters
Lube oil purifier with replaceable cartridge Water cooled lube oil cooler

Air intake and exhaust system

Top mounted turbocharger optimized for genset application Special rear mounted air filter with restriction indicator Exhaust manifold and turbocharger shield for heat isolating.

Generator datasheet

Genset Model		UP625B-NG
Standby Power		500kW
Prime Power		550kW
Speed		1500rpm
Frequency		50hz
Alternator		Leroy Somer
Voltage		220/400 v adjustable
Engine thermal efficiency		41%
Emission Standards		StageIIIA
Fuel type		Natural Gas & Biogas
1800RPM	Prime Power	550kW
	Standby Power	600kW

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.

- All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of $\pm 5\%$.
- 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.
- 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.

Unified Power Tech Co., Ltd

Website: www.unfiedpowertech.com



Email: ru@unifiedpowertech.com

Email: info@unifiedpowertech.com



Email: usa@unifiedpowertech.com