



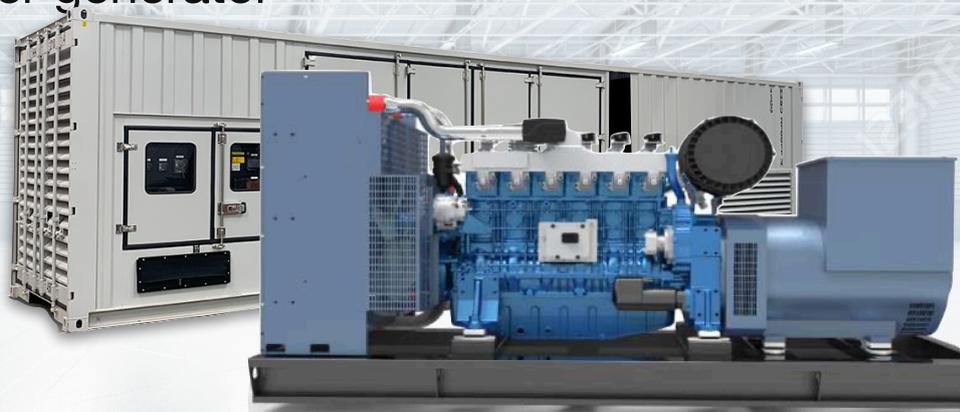
UP500B-NG

Natural gas/biogas Power generator

Power range:

50 Hz: 350– 400 kWe

60 Hz: 370– 420 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

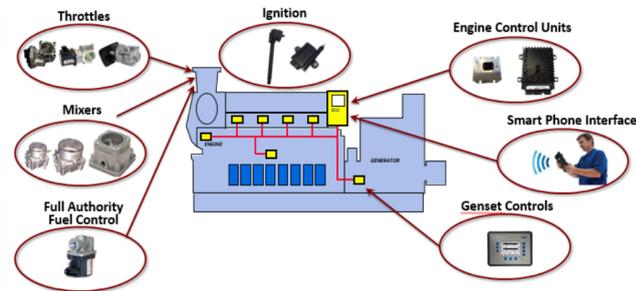
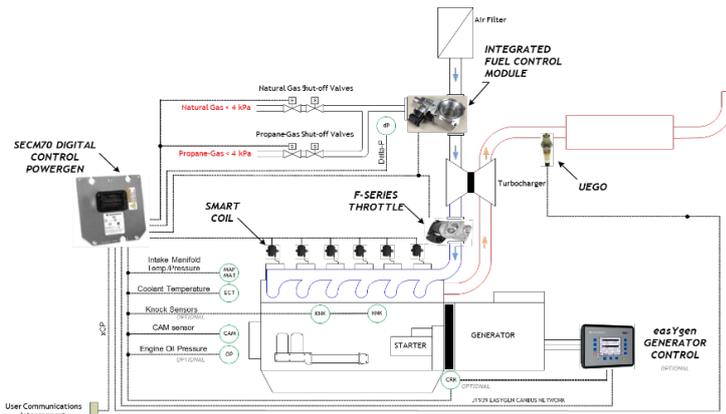
Full duty cycle capability, from prime to continuous power

Electronically controlled high efficiency engine

Engine Data

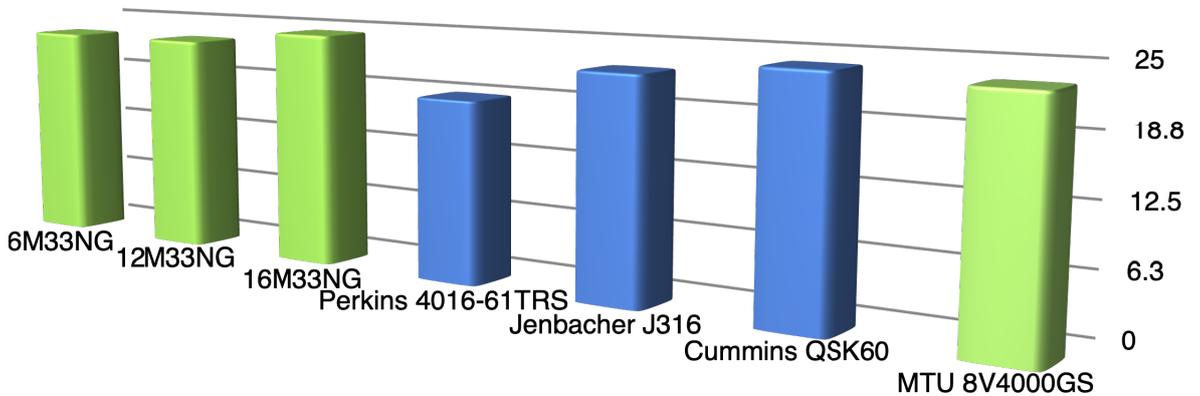
Model		6M33NG
Technology		Lean Burn
Air intake method		Supercharging and inter cooling, premixing before gas supercharging
Number of cylinders		6
Bore size x stroke (mm)		150x185
Displacement (L)		19.6
Mean effective pressure (Bar)		18.4
Engine thermal efficiency		41%
Emission Standards		StageIIIA
Fuel type		Natural Gas & Biogas
1500RPM	Common engine power (kWm)	380~450
	Supporting unit power (kWe)	320~400
1800RPM	Common engine power (kWm)	360~480
	Supporting unit power (kWe)	300~400

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.

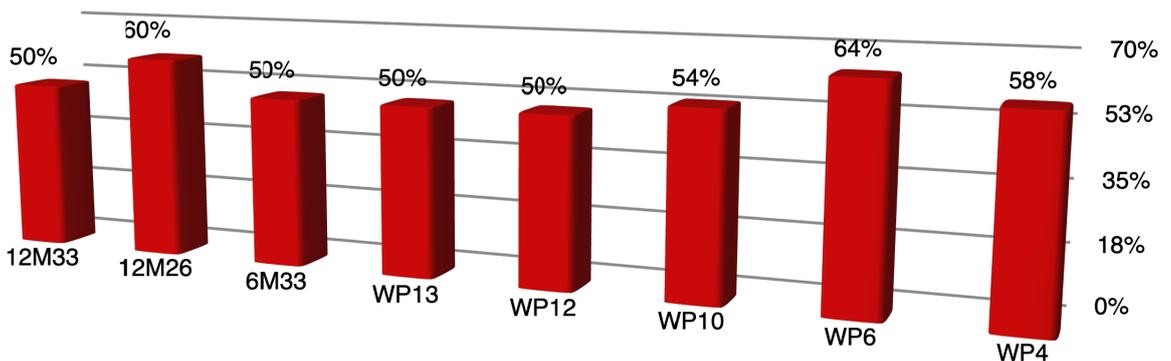


The engine has high power density, and its power per liter and BMEP have reached the international advanced level; The transient performance is good, the load loading rate is >50% at one time, and it can be added to full load in two times, meeting the performance level of G3 generator set.

Power (kW/L)



One-time loading capacity of natural gas generator set



Generator datasheet

Genset Model		UP500B-NG
Standby Power		440kW
Prime Power		400kW
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	420kW
	Standby Power	460kW

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