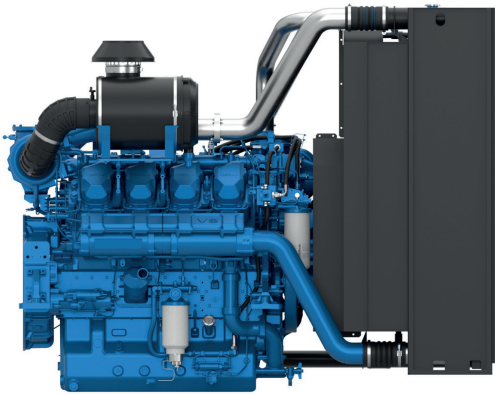




8M33

PowerKit ESP/PRP Diesel Engine



Bore & Stroke (mm)	150 x 185
Displacement (L)	26.1
N° of Cylinders	8
Cylinders Arrangement	At Vee
Fuel System	High Pressure Common Rail / Mechanical
Governor (Gov.)	ECU / Electronic
Aspiration (Asp.)	Turbocharged & air-to-air cooled

Customer benefits

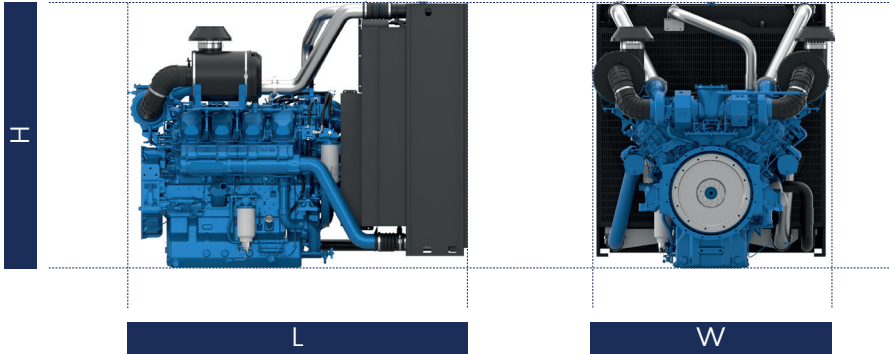
Warranty terms - 2 years unlimited hours PRP 4 years / 800h ESP
 50°C Cooling package standard with low derating
 Extended MTBO

Diesel Engine Models	Gross Engine Output		Typical Generator Output				RPM	Asp.	Gov.
	ESP	PRP	ESP		PRP				
	kWm		kWe	kVA	kWe	kVA			
8M33G900/5	800	730	720	900	640	800	1500	T/A-A	ELEC
8M33G1000/5	890	815	800	1000	720	900	1500	T/A-A	ELEC
8M33G1100/5	975	880	880	1100	800	1000	1500	T/A-A	ECU
8M33G800/6	909	826	800	1000	720	900	1800	T/A-A	ELEC
8M33G900/6	1012	910	900	1125	800	1000	1800	T/A-A	ECU

Standard Equipment

Engine and block	Cast iron frame style body structure One-piece forged crankshaft Split-cap forged steel connecting rods Separate cast iron cylinder heads with 4 valves Replaceable dry cylinder liners Aluminum alloy pistons with oil cooling gallery
Cooling System	Radiator and hoses supplied separately Thermostatically-controlled system with belt driven coolant pump and pusher fan High water temperature sensor
Lubrication system	Flat bottom large capacity oil pan Spin-on full-flow lube oil filter Low oil pressure sensor
Fuel system	P type fuel injection pump and injector for higher inject pressure, for engines with electronic governor High pressure Common Rail injection system, for engines with ECU Duplex fine filter and water separation filter assembly with transparent cup for better efficiency
Air intake and exhaust system	Special rear mounted air filter with restriction indicator Exhaust manifold shield for heat isolating
Electrical System	24 Vdc electric starter motor and battery charging alternator
Flywheel and housing	SAE 1 flywheel housing and 14" flywheel

Dimensions and dry weight (mm/kg)



Diesel Engine	Speed	Dimensions and dry weight including radiator			
		L	W	H	WEIGHT
	RPM	mm	mm	mm	Kg
8M33G900/5	1500	2550	1865	2016	3500
8M33G1000/5	1500	2550	1865	2016	3500
8M33G800/6	1800	2550	1865	2016	3500

* Dimensions are including the radiator

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.

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.

