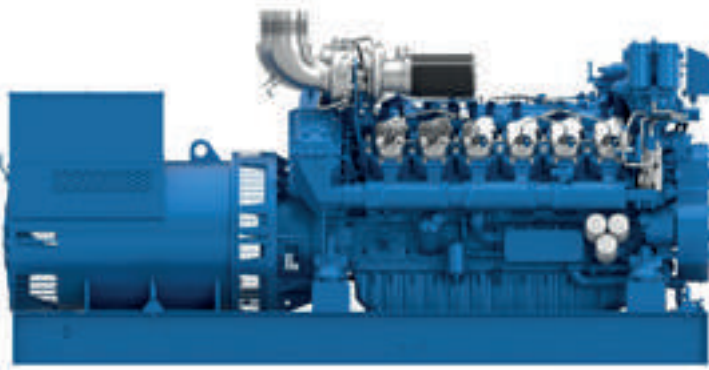




# 12M33.2

Marine Generator Set



Number of cylinders	12V @ 90°
Bore and stroke	150 x 185 mm
Total displacement	39.2 L
Engine rotation	Counterclockwise
Idle speed	650 rpm

### Customer benefits

**Genuine marine design** with simple solutions, routine maintenance front area, engine block inspection hatches

**Simple technology** with mechanical injection

**Global environment care** with low exhaust emissions and controlled fuel consumption on any running cycle

**Life cycle cost efficiency** with extended mean time between overhauls (MTBO)

### Rating table

Rating	Hz	kVa	kWe	RPM	g/kWh	l/h	IMO
PRP	50	1190	952	1500	206	245	II
PRP	60	1320	1056	1800	210	275	II

### Prime running power (PRP)

Variable load with mean power calculated on 250 running hours

No restriction on use if mean power  $\geq 75\%$  of nominal power

Total operating time at 100% nominal power shall not exceed 500 hours per year

10% overload available 1 hour each 12 hours

### Power definition

Standard ISO 3046/1 - 1995 (F)

#### Reference conditions

Ambient temperature	25°C / 77°F
Barometric pressure	100 kPa
Relative humidity	30%
Raw water temperature	25°C / 77°F

#### Fuel oil

Relative density	0,840 $\pm$ 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	0 $\pm$ 5%
Inlet limit temperature	35°C / 95°F

#### Emissions

IMO Tier II - CCNR2 - CE97/68 IIIA

### Standard equipment

#### Engine and block

Cast iron cylinder block with replaceable cylinder liners  
 Separate cast iron cylinder heads  
 Replaceable valves guides and seats  
 Steel forged crankshaft with 7 bearings  
 Light alloy piston with 3 high performance piston rings

#### Cooling system

Fresh / raw water heat exchanger and expansion tank  
 Cast iron centrifugal fresh water pump, mechanically driven  
 Bronze self-priming raw water pump, mechanically driven

#### Lubrication system

Full flow screwable oil filters  
 Fresh water cooled lube oil cooler

#### Fuel system

In-line injection pump with flanged mechanical governor  
 Double wall injection bundle with leakage collector  
 Duplex fuel filters replaceable while engine running

#### Intake air and exhaust system

Fresh water cooled exhaust gas manifold  
 Turbo blower with insulated turbine housing

#### Electrical system

Voltage 24V DC  
 Electrical starter on flywheel crown

#### Generator

50/60Hz Frequency, 4 Pole  
 Insulation / Heating Class H/H  
 Electronic voltage regulation  
 Brushless excitation  
 IP23 Protection, Marine impregnation  
 Dual bearing

### Specific Fuel consumption

Rating	Frequency	kWe	100% PRP			75% PRP			50% PRP		
			kWm	g/kWh	l/h	kWm	g/kWh	l/h	kWm	g/kWh	l/h
PRP	50	952	1000	206	245	750	201	179	500	204	121
PRP	60	1056	1104	210	275	828	208	205	552	215	141

**Dimensions and dry weight (mm/kg)**

Model	L (mm)	W (mm)	H (mm)	Weight (Kg)
1190 kVA @50 Hz	3744	1622	1855	7300
1320 kVA @60 Hz	3744	1622	1855	7300

