



## Marine Generator Set

# 12 M26.3

Model	Injection	Speed control	Cylinder configuration	Bore/stroke (mm)	Displacement (l)
12 M26.3	Common Rail	Electronic	12 in V	150x150	31.80

### Customer benefits

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

**Continuous compact power** with reference performances in its category

**Global environment care** with low exhaust emissions, noise reduction and controlled fuel consumption at any running cycle

**Latest safe technology** including electronic injection dynamic redundancy, high efficient ball bearing turbocharger, integrated circuits with 0 flexible hoses, and more...

**Life cycle cost efficiency** with extended MTBO, modular concept reducing number of components and interfaces

### Rating table

Rating	Frequency	RPM	kWm	kWe	kVA	IMO*	EPA*
PRP	50 Hz	1500	880	840	1050	II-III	III-IV
PRP	60 Hz	1800	1000	956	1195	II-III	III-IV

\*IMO III & EPA IV with SCR System.

### 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	$\pm$ 5 %
Air inlet limit temperature	35 °C / 95 °F



## Standard equipment

### Cooling system

Two stages cooling circuit with built-in HT thermostatic valves  
 Integrated fresh water expansion tank with port/starboard filling provision  
 High efficiency tubular heat exchanger module  
 Gear driven centrifugal fresh water pump  
 Self priming raw water pump with bronze impeller

### Lubrication system

Full flow lube oil filters duplex type - Centrifugal lube oil purifier  
 Fresh water cooled lube oil heat exchanger module  
 Port or starboard lube oil filling cap and dipstick  
 Manual priming and draining pump

### Fuel system

Common-rail injection  
 Two high pressure pumps (one per bench) with shielded high pressure injection rails and pipes  
 Fuel oil filter duplex type  
 Water separator

### Intake air and exhaust system

Double flow raw water cooled intake air heat exchanger module  
 Fresh water cooled exhaust gas manifolds  
 High efficiency dry turbochargers with ball bearing technology

### Electrical system

Voltage: 24V DC insulated  
 Electrical starter  
 Baseframe mounted control cabinet according to Classification Societies recommendations

### Generator

50/60 Hz frequency, 4 poles  
 Insulation / Heating class H/H  
 Electronic voltage regulation  
 IP23 protection, marine impregnation  
 Double bearing

## Specific fuel consumption

Frequency	PRP				75% PRP			50% PRP		
	kWe	kWm	g/kWh	l/h	kWm	g/kWh	l/h	kWm	g/kWh	l/h
50 Hz	840	880	210	221	660	205	160	440	206	108
60 Hz	956	1000	203	242	750	201	180	500	206	123