

# 6 M19.3 Marine Generator Set

Model	Injection	Speed control	Cylinder configuration	Bore/stroke (mm)	Displacement (l)
6 M19.3	Common Rail	Electronic	6 in line	126x155	11.56



## Customer benefits

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

**Global environment care** with low exhaust emissions

**Best in Class fuel consumption at any load profile**

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

## Rating table

Rating	Frequency	RPM	kWm	kWe	kVA
PRP	50 Hz	1500	339	320	400
PRP	60 Hz	1800	380	360	450

## 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

## 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 with integrated thermostatic valves 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

Electronic common rail injection  
 Double wall injection bundle  
 Duplex fuel filters  
 Water separator

### Intake air and exhaust system

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

### Electrical system

Voltage 24Vdc  
 Electrical starter on flywheel crown  
 55A battery charger

### Generator

- 50/60Hz Frequency, 4 Pole
- Insulation / Heating Class H/H
- Electronic voltage regulation
- Brushless excitation
- IP23 Protection, Marine impregnation
- Single 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	320	339	190	76	225	192	51	170	196	39
60 Hz	360	380	200	90	226	198	53	190	203	45

## Dimensions and dry weight (mm / kg)

A	B	C	Weight
2608	1042	1320	2470

