

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

