



6M33.2

Marine Generator Set



Bore & Stroke (mm)	150 x 185
Displacement (L)	19.6
N° of Cylinders	6
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	590	472	1500	198	118	II
PRP	60	655	524	1800	221	145	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 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

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
 Single 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	472	497	198	118	375	198	88	250	202	60
PRP	60	524	552	221	145	414	208	103	276	212	70

Dimensions and dry weight (mm/kg)

Model	L (mm)	W (mm)	H (mm)	Weight (Kg)
590 kVA @50 Hz	3076	1405	1629	4104
650 kVA @60 Hz	3076	1405	1629	4056

