

# 6 W105S Marine Generator Set

Model	Injection	Speed control	Cylinder configuration	Bore/stroke (mm)	Displacement (l)
6 W105S	Mechanical	Electronic	6 in line	105X130	6.75



## Customer benefits

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

**Easy service** with accessible components and unit cylinder heads

**Simple technology with mechanical injection**

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

## Rating table

Rating	Frequency	RPM	kWm	kWe	kVA
PRP	50 Hz	1500	107	100	125
PRP	50 Hz	1500	129	120	150
PRP	60 Hz	1800	116	108	135
PRP	60 Hz	1800	144	135	170

## Prime running power (PRP)

- Variable load with mean power calculated on 250 running hours
- No restriction on use if mean power  $\leq 75\%$  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%

## 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



## 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  
 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 electronic speed governor  
 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

### 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	100	107	199	25	81	203	19	53	258	16
50 Hz	120	129	194	29	97	201	23	75	228	20
60 Hz	108	116	203	28	87	207	21	58	243	16
60 Hz	136	144	200	34	109	202	26	73	218	18

## Dimensions and dry weight (mm / kg)

	A	B	C	Weight
125-135 KVA	1991	1044	1130	1231
150-170 KVA	2031	1044	1130	1266

