

# 6 M16 Marine Generator Set

Model	Injection	Speed control	Cylinder configuration	Bore/stroke (mm)	Displacement (l)
6 M16	Mechanical	Electronic	6 in line	126x130	9,70



## Customer benefits

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

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

**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	170	156	195
PRP	50 Hz	1500	205	192	240
PRP	60 Hz	1800	183	168	210
PRP	60 Hz	1800	224	208	260

## Prime running power (PRP)

- Variable load with mean power calculated on 250 running hours
- No restriction on use if mean power 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 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	0 ± 5%
Air inlet limit temperature	35 °C / 95 °F

## 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

### Lubrification 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  
 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	156	170	212	43	127	212	32	85	229	23
50 Hz	192	205	200	49	154	213	39	102	227	28
60 Hz	168	183	216	47	137	222	36	91	239	26
60 Hz	208	224	211	56	168	220	44	112	225	30

## Dimensions and dry weight (mm / kg)

A	B	C	Weight
2408	1224	1275	1868 (1958 for 240 kVA - 50 Hz)

