

W105ES serie

Model	Injection	Speed control	Cylinder configuration	Bore/stroke (mm)	Displacement (l)
4 W105ES	Mechanical	Electronic	4 in line	105°130	4,50
6 W105ES	Mechanical	Electronic	6 in line	105°130	6,75



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

Model	Frequency	rpm	LTP			Standard Voltage
			kWM	kWe	KVA	
4 W105ES	50 Hz	1500	74	68	85	3*380
	50 Hz	1500	83	76	95	3*380
	60 Hz	1800	91	84	105	3*440
	60 Hz	1800	100	92	115	3*440
6 W105ES	50 Hz	1500	142	132	165	3*380
	60 Hz	1800	145	135	170	3*440

Phases synchronous generator

Frequency	50/60 Hz - 4 poles
Insulation / Heating class	H/H
Voltage regulation	Electronic
Excitation	Brushless
Protection / Impregnation	IP23 / Marine
Construction type	Single bearing

Limited Time Running power (LTP)

- Variable load with mean power calculated on 250 running hours
- Nos overload for mains regulation
- Typical hours per year 500 h (with mean power 85 % of rated power)
- Total operating time at 100% not exceed 25 hours per year
- Maximum continuous running time et 100% rated power: 1h each 12h

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 Lube oil cooled light alloy piston with 3 high performance piston rings
Cooling system	2 stages cooling radiator including Fresh water/air cooling loop and intake air/air cooling circuits Belt driven cooling radiator fan
Lubrication system	Full flow screwable oil filters Fresh water cooled lub 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	Insulated exhaust gas manifold Turbo blower with insulated turbine housing
Electrical system	Voltage 24Vdc Dual electrical starter on flywheel crown 55A battery charger

Specific fuel consumption

Model	Frequency	LTP rating				75% LTP			50% LTP		
		kWe	kWm	g/kWh	l/h	kWm	g/kWh	l/h	kWm	g/kWh	l/h
4 W105ES	50 Hz	68	74	196	17	56	200	13	37	211	9
	50 Hz	76	83	198	20	62	199	15	42	205	10
	60 Hz	84	91	196	21	68	197	16	46	218	12
	60 Hz	92	100	199	24	75	200	18	50	215	13
6 W105ES	50 Hz	120	129	194	30	97	201	23	65	228	18
	60 Hz	135	145	200	35	109	202	26	73	218	19

Dimensions and dry weight (mm / kg)

Rating	A	B	C	Weight
4 W105ES	2039	999	1260	1310
6 W105ES	2450	1059	1313	1390

