

ON BOARD GENSET RANGE OBG 040R OPERATION DATASHEET

GENSET PERFORMANCE

Electric frequency [Hz]	Electrical prime power rating [kVA] (1) (2)	Electrical Stand By power rating [kVA] (1) (2)
50 Hz	40	42
60 Hz	40	42

ENGINE PERFORMANCE

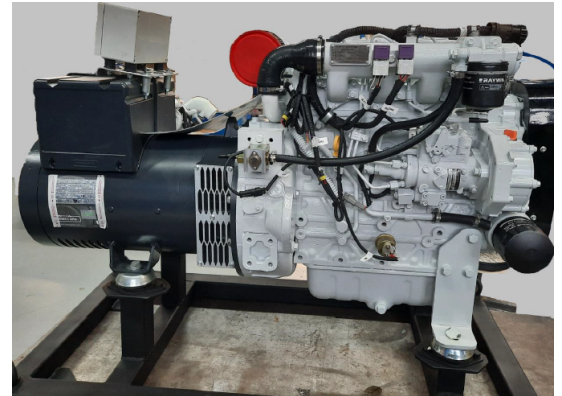
Engine speed [rpm]	Mechanical Prime power rating [kWm (hp)] (1)	Mechanical Stand By power rating [kWm (hp)] (1)	Specific fuel consumption @ full load [g/kWh]
1500 rpm	36,0	39,6	225
1800 rpm	36,0	39,6	229

ENGINE GENERAL DATA

Thermodynamic cycle	Diesel - 4 stroke
Engine architecture	4 cylinders, in line
Firing order	1 - 3 - 4 - 2
Air intake	Turbocharged
Cooling	Water
Charge air cooling system	N/A
Compression ratio	17,8:1
Injection system	Mechanical rotary pump
Combustion	Direct injection
Engine displacement	2,45 l
Valves per cylinder	2
Intake	1
Exhaust	1
Rotation (viewed from engine flywheel)	CCW
Engine crantckcase ventilation system	Recirculated

GENERATOR GENERAL DATA

H class model	MECCALTE ECP32 - 2 S/4 C
B class model	MECCALTE ECP32 - 1 M/4 C
Poles	4
Phases	3 + N
Winding treatments	Standard+
Stator/rotor insulation class	H
Enclosure protection	IP 23
Cooling	by ventilation fan
Total Harmonic Distortion - THD	< 3.5%
Maximum overspeed [rpm]	2250
Execution	Brushless
Voltage regulator	DSR





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OBG 040R

OPERATION DATASHEET



GENERATING SET INSTALLATION DATA

General datas

Dry weight [kg]	490 (H class) - 530 (B class)	
External dimensions [mm]	1470 x 700 x 865	

Liquids

Engine lube oil total capacity [l]	9,5	
Engine lube oil specification	ACEA E3 - E5 (summer: 15W40 - winter: 5W-30)	
Primary coolant capacity [l]	8,5	
Primary coolant specification	SAE J1034	

Air requirements and exhaust

	50 Hz	60 Hz
Air requirement for combustion @ full load [kg/h]	227	268
Exhaust temperature @ full load [°C]	550	550
Exhaust gas flow @ full load [kg/h]	236	276
Max allowable exhaust backpressures [kPa]	10	

Injection system

Injection pump	STANADYNE DB	
Injection pump speed regulator	Mechanical	
Max speed drop in steady conditions	5%	
Max fuel feed suction head [m]	2	
Fuel specifications	EN590	

Cooling system

	50 Hz	60 Hz
Sea water pump flow [l/min]	55	66
Heat rejected to sea water [kW]	17,2	18,9
Max allowable sea water inlet restriction [kPa]	2	

Electric system

Breakaway current [A]	1300	
Cranking motor power [kW]	2,3	
Minimum recommended battery capacity [Ah]	100	
Electric system voltage	12V	

STANDARD EQUIPMENT

Engine, sea water pump, engine coolant pump, water cooled exhaust manifold, 12V electric system, Bimotor light control panel (includes oil pressure gauge, coolant temperature gauge, voltmeter, tachometer, engine alarm lights, key and ignition button), H/B class generator (standard+ winding treatment), black powder painted baseframe, elastic pads (4), internal testing.

OPTIONS

24V electric system, 24V insulated poles electric system, wet exhaust riser, special control panels and automation, engine coolant heaters, generator winding GREY treatment.

- (1) Power at flywheel according to 97/68 EC (without fan), after 50 hours running, 3% tolerance, fuel Diesel EN 590
Test conditions : ISO 3046/1, 25 °C air temperature, 100 kPa atmospheric pressure, 30% relative humidity
- (2) Electric power with 89% generator efficiency and 0.8 power factor.