ON BOARD GENSET RANGE
OBG 010R
OPERATION DATASHEET

GENSET PERFORMANCE

Electric frequency [Hz]	Electrical prime power rating [kVA] (1) (2)	Electrical Stand By power rating [kVA] (1) (2)
50 Hz	10	11
60 Hz	11	12,5

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	9,1	10	225
1800 rpm	10,1	11,1	227

ENGINE GENERAL DATA

Thermodynamic cycle	Diesel - 4 stroke
Engine architecture	3 cylinders, in line
Firing order	1-3-2
Air intake	NA
Cooling	Water
Charge air cooling system	N/A
Compression ratio	24:1
Injection system	Mechanical rotary pump
Combustion	Direct injection
Engine displacement	1,07 l
Valves per cylinder	2
Intake	1
Exhaust	1
Rotation (viewed from engine flywheel)	CCW
Engine cranckcase ventilation system	Recirculated

GENERATOR GENERAL DATA

H class model	MECCALTE ECP3 - 1 L/4 C
B class model	MECCALTE ECP3 - 2 L/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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GENERATING SET INSTALLATION DATA

General datas		
Dry weigth [kg]	300 (H class) - 320 (B class)	
External dimensions [mm]		

Liquids	
Engine lube oil total capacity [l]	3,7
Engine lube oil specification	ACEA E3 - E5 (summer: 15W40 - winter: 5W-30)
Primary coolant capacity [l]	4
Primary coolant specification	SAE J1034

Air requirements and exhaust	50 Hz	60 Hz
Air requirement for combustion @ full load [kg/h]	70	72
Exhaust temperature @ full load [°C]	550	550
Exhaust gas flow @ full load [kg/h]	74	77
Max allowable exhaust backpressures [kPa]	5	

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]		
Heat rejected to sea water [kW]	12	15
Max allowable sea water inlet restriction [kPa]	2	

Electric system	
Breakaway current [A]	620
Cranking motor power [kW]	1,4
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 or Standard+ 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.