

# **Basic Line Marine Gen Set Data Sheet**

# **GREEN LINE**

MGL2635KC410



Unit	Value
kVA	512,5
kW	410
r.p.m.	1500
V	400
Hz	50
	3
	kVA kW r.p.m. V

#### **Engine Equipment**

- Basis engine for IMO Tier III
- Air filter(s)
- Full flow lube oil filter with dip tray
- Lube oil cooler
- Freshwater cooling pump with thermostats (HT circuit)
- Raw/Seawater pump LT circuit
- 2x Duplex change-over fuel oil filter with dip tray
- Flameproof flexible fuel oil hoses
- Flywheel and -housing
- Common rail injection system with high pressure pump
- Fuel lift pump and pre-filter
- Turbocharger air cooled and isolated
- Intercooler water-cooled
- Exhaust manifold(s) water-cooled
- Lube oil sump
- Hand pump for lube oil draining
- Prepared for connecting to keel cooling/box cooling system

Engine and	l Alternator	
Engine	Baudouin 6M26.3 + SCR	
Alternator	LIAG Standrad Alternator	

Diesel Engine Data		
Engine Power	kW	440
Number of Cylinders	Pcs.	6
Arrangement of Cylinders		In-line
Bore/Stroke	mm	150/150
Piston displacement	litres	15,9
Intake Air Volume Flow	m³/h	2280
Exhaust gas heat	kW	N.A.
Exhaust gas temp.	°C	496
Exhaust gas mass flow	kg/h	2624
Exhaust gas volume flow	m³/h	5801
Exhaust gas back press. max	hPa	20/65
Cooling water heat	kW	231
Intercooler heat rate	kW	102
Radiation heat	kW	58

#### **Specific Fuel and Oil Consumption** 100% Load [g/kWh] 195 75% Load [g/kWh] 196 50% Load [g/kWh] 200 Lube oil consumption (max) [g/h]352 Urea consumption @ 32,5% Urea [g/kWh] 9,75

## Alternator Options:

- Anti-condensation heater(s)
- Droop kit for parallel operation
- Winding temperature sensors (1 x 3 PTC)

## Classification

Optional

Alternator Data		
Voltage	V	400
Frequency	Hz	50
Speed	r.p.m.	1500
Insulation Stator/Rotor	CI.	Н
Temperature Rise	CI.	Н
Enclosure	IP	IP 23
Power	kW	410
Power	kVA	512,5

### Alternator Equipment

The alternator is a 2-bearings, brushless, self-exciting, self-regulating with revolving field, inventilated, drip-proof design and with damper windings included.

The voltage regulation is maintained within limits of +/- 0,5 % from no load to full load at any power factor between 0,8 and 1,0.

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# **LIAG** Marine Power Systems



#### **Alarm Equipment**

Indication for individual alarm at following failures:

- Low cooling water pressure LT
- Low cooling water level LT
- Low cooling water pressure HT
- Low cooling water level HT
- High cooling water temperature HT
- Low fuel oil pressure
- Low lube oil pressure
- High lube oil temperature
- Over speed
- Options to customized as per clients requirements

ı	Shut-D		

- Overspeed
- Too high cooling water temperature HT
- Too low lube oil pressure

### Control System

The Engine Control Panel is flexible mounted on right side of the set and equipped alarm, monitoring and control system according to the rules of classification society.

Marine Engine Controller (MEC 24) with Graphic display 5,7". Redundant microprocessor based control and supervision system.

- (Optional) Provision of remote control MEC24 panel
- (Optional) Provision of Modbus RTU communcation

### Construction

The diesel engine and alternator are connected through a flexible coupling and mounted on a common marine bed frame, manufactured of electro welded steel profiles. Vibration dampers are mounted between the set and the bed frame.

### Cooling System

Prepared for a double circuit keel cooling system incl. installed pumps for HT&LT circuit

#### Fuel oilSystem

The fuel consumption stated below refers to a net calorific value of 42,700 kJ/kg (11,800 kWh/kg) for fuel acc. to

DIN EN 590 or ASTM D975 or DMX/DMA as ISO8217 with sulphur max. 0,20% (2000 ppm)

You will get more information in the engine supplier manual.

Dimensions		
Height	mm	2200
Width	mm	1360
Length	mm	3400
Weight	kg	4500

### **Painting**

The set will be painted in colour RAL6019

The instrument panel will be painted in colour RAL 7035

#### Signs

All signs on the set will be in English

### Certificates & Test run

The equipment will be tested according to LIAG rules in our workshop in Germany in the presence of our QS Team

- 1 No. LIAG test report
- 1 No. technical files for parts according to MARPOL ANNEX VI The parts which have influence on the NOx Emission will be according to the requirement for obtaining Certificate E(I)APP
- 1 No IMO Tier III (NOx) E(I)APP Certificate by DNV according to flag state

### Main starting system

- Electric 24V, 5,4 kW, 2-pole

#### Warranty

12 months after commissioning, max. 24 months after announcement of readiness to dispatch from LIAG, whichever comes first.

### Electronical Final Documentation (per ship)

- 1x CD / USB's of Technical data's, descriptions, service instructions and drawings for the delivered equipment in English language

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Specifications are subjected to change without prior notice

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