



HEAVY RANGE

1 MAIN FEATURES

T Triphasic	Diesel fuel	Baudouin / 12M55G2300/5	Leroy somer / LSA523S6	/ 8610
Hz 50Hz	1500 r.p.m.	V 400V	cos φ 0,8	Standby power (STP) 2200 kVA 1760 kW
				Prime Power (PRP) 2000 kVA 1600 kW
				Power Continuous (COP) - kVA - kW

OPEN SKID		SOUNDPROOF	
Length (L)	6500 mm	Length (L)	12192 mm
Height (H)	2590 mm	Height (H)	2590 mm
Width (W)	2440 mm	Width (W)	2440 mm
Weight	8087 kg	Weight	15587 kg
Daily tank	800 L	Daily tank	800 L
	50Hz		50Hz
Acoustic pressure level @1m	-	Acoustic pressure level @1m	88 dB(A)
Acoustic pressure level @7m	-	Acoustic pressure level @7m	75 dB(A)

AVAILABLE VOLTAGES - 50Hz						
FP (cos Ø)	Phase	Voltage	COP (kVA/kW)	PRP (kVA/kW)	STP (kVA/kW)	Circuit breaker (A)
0,8	Three-phase	440	- / -	1818 / 1454	2000 / 1600	2500
0,8	Three-phase	415	- / -	2000 / 1600	2200 / 1760	3200
0,8	Three-phase	400	- / -	2000 / 1600	2200 / 1760	3200
0,8	Three-phase	380	- / -	2000 / 1600	2200 / 1760	3200

2 ROOM INSTALLATION

EXHAUST SYSTEM	50 Hz		
	COP	PRP	STP
Exhaust gas temperature (°C)	-	650	-
Exhaust gas flow (m³/min)	-	357,8	395,7
Evacuated Heat (kW)	-	-	-
Maximum back pressure (kPa)		7,5	
Exhaust silencer attenuation (dB)		18-25	
Output Diameter (mm)		-	

VENTILATION SYSTEMS	50 Hz		
	COP	PRP	STP
Combustion air flow (m³/min)	-	121,6	134,3
Cooling airflow (m³/min)		-	
Maximum load losses (Pa)		-	
RADIATION	50 Hz		
	COP	PRP	STP
Engine (kW)	-	-	-
Alternator (kW) 50	65,6	65,6	77,4

3 ENGINE SPECIFICATIONS

GENERAL SPECIFICATIONS	50 Hz
Model	12M55G2300/5
Emissions	Not satisfy 97/68/EC
Performance grade	G2
Operating method	Four stroke
Fuel type	Diesel fuel
Refrigeration system	Water/antifreeze Closed Circuit
Aspiration system	Turbocharged/intercooler
Injection system	Common rail
No. and Cylinder arrangement	12 In-V
Displacement (L)	65,65
Cylinder bore (mm)	180
Cylinder stroke (mm)	215
Compression Ratio	16.5:1
Regulation	Electronic
Rotation speed	1500
Piston Speed (m/s)	10,8
Gross power COP (kWm)	-
Gross power PRP (kWm)	1850
Gross power STP (kWm)	2020
Fan power (kWm)	70
Net Power COP (kWm)	-
Net Power PRP (kWm)	1780
Net Power STP (kWm)	1950
BMEP COP (kPa)	-
BMEP PRP (kPa)	2254
BMEP STP (kPa)	2462



CONSUMPTION		50 Hz	
Fuel consumption	LOAD	lt/h	g/kWh
STP	100%	445,1	185,1
	100%	407,2	184,9
	75%	309,5	187,4
PRP	50%	217,5	197,5
	100%	-	-
	75%	-	-
COP	50%	-	-

Oil consumption -

REFERENCE CONDITIONS

Temperature (°C)	25
Atmospheric pressure (kPa)	100

CAPACITY

Coolant (L)	306
Oil (L)	560

STARTING SYSTEM

Voltage (V)	2 x 24
Power (kW)	2 x 8.5
Battery (Ah)	225

4 ALTERNATOR SPECIFICATIONS

GENERAL SPECIFICATIONS	
Model	LSA523S6
Phases No.	Triphasic
Protection	IP23
Insulation	H
Temperature Rise	H
50Hz R.F.I. telephone interference	THF<2%
60Hz R.F.I. telephone interference	TIF<50
R.F.I. Suppression	CEM 2014/30/UE
Coupling	Semi-Flexible
Support	Single bearing



Wave form distortion with no load	< 3,5%
Wave form distortion with balanced linear load	< 5%
Winding Leads	6
Excitation (standard / option)	AREP
AVR Model (standard / option)	D 510 C
Voltage Regulation (standard / option)	± 0,5



HEAVYRANGE

RATED POWER - 50Hz

FP (cos Ø)	Phase	Voltage (V)	Power	Efficiency	Xd	X'd	X''d
			PRP/STP (kVA)	PRP/STP (%)			
0,8	Three-phase	440	1818 / 2000	95,9 / 95,6	3,800	0,309	0,164
0,8	Three-phase	415	2000 / 2200	95,9 / 95,6	3,800	0,309	0,164
0,8	Three-phase	400	2000 / 2200	95,9 / 95,6	3,800	0,309	0,164
0,8	Three-phase	380	2000 / 2200	95,9 / 95,6	3,800	0,309	0,164

5 CONTROL PANEL



GENSET	DEESEA 8610	OPTIONAL
Voltage (Ph-Ph / Ph-N)	• / •	• / •
Current intensity	•	•
Frequency	•	•
RMS values	•	•
Generator phase sequence	•	•
Generator earth current [a]	o	o
No. of registers events	250	250
Real time clock	•	•
PIN protection	•	•
kWh, kVAr, kVAh, kVAh, cos Ø	•	•
Synchroscope (m)	•	•
Nº of available outputs [b]	3	6
Engine run hours	•	•
Indication of alarms on LCD	•	•
Total no. of LED indicators	9	12
No. of LED alarms	4	4
Sound signalling alarms	•	•
Scheduler	•	•
Fuel Level	•	•

Electrical network	DEESEA 8610	OPTIONAL
Voltage (Ph-Ph / Ph-N)	- / -	o / o
Current intensity [a]	-	o
Frequency	-	o
kVA, kW, cos Ø (a)	-	o
Inversion control between main-group	-	o
Protections and Alarms	DEESEA 8610	OPTIONAL
High / low battery voltage	A	o
Failure in Battery Charge Alternator	A	o
Failure to stop	A/S	A/S
Failure to start	A/S	A/S
Low fuel level	A/S	A/S
Overload	A/S	A/S
Earth leakage	A/S	A/S
Asymmetry between phases	A/S	A/S
Maintenance	A/S	A/S
High / Low generator frequency	A/S	A/S
Engine overspeed	A/S	A/S
Engine underspeed	A/S	A/S
Generator overvoltage	A/S	A/S
Generator undervoltage	A/S	A/S
ECU Alert (if applicable)	A/S	A/S
Low oil pressure	A/S	A/S
Low level of radiator water [f]	A/S	A/S
Engine high temperature	A/S	A/S
Fuel leakage/ theft	A	o

6 CONTROL PANEL

Engine	DEEPSEA 8610	OPTIONAL
Engine Speed	•	•
Low oil pressure protection	•	•
Oil pressure reading [c]	o	o
High temperature engine protection	•	•
Engine temperature reading [c]	o	o
Engine battery voltage	•	•
Intensity of the engine battery [d]	o	o
Fuel Consumption [e]	•	•
Low level of radiator water [f]	o	o
Engine maintenance scheduled	•	•
Communication	DEEPSEA 8610	OPTIONAL
USB female type B plug (Max. 6m) [g]	•	•
USB female type A plug (n)	•	•
RS232 port (Max. 15m) (n)	•	•
RS485 port (Max. 1,2Km) [h]	•	•
Ethernet port RJ45 [i]	•	•
GSM and/or GPS [j]	A/S	o
ModBus RTU protocol [h]	•	•
ModBus TCP protocol [i]	•	•
SNMP protocol [l]	A/S	o
CAN port (Max. 40m)	•	•
MSC port (Max. 240m) (m)	•	•
PLC functionality	•	•

Applications	DEEPSEA 8610	OPTIONAL
Automatic or manual starting	•	•
Remote start by NO dry contact	•	•
Automatic by mains failure	-	o
Alternating with timesharing	•	•
Multi-generators synchronization and load sharing (Max. 32 generators) (m)	•	•
Generator-Main in synchronism and load sharing (1 generator and 1 main) (m)	-	o
Optional expansions	DEEPSEA 8610	OPTIONAL
DSE2130 (8 inputs dig.) IG-IOM (8 in/outputs dig. + 4 inputs anal.) G-08 (8 inputs dig.)	•	•
DSE2157 I-RB8 G-06 (8 relay outputs)	•	•
DSE890 IL-NT-GPRS G-GSM (GSM and/or GPS)	•	•
DSE891 IB-LITE G-ETH (ethernet module)	•	•
DSE892 IB-LITE - (ethernet module according SNMP protocol)	•	•
DSE2548 IGL-RA15 - (expansion with 8 additional LEDs)	•	•
DSE2510 / 20 (mirror controller, maximum distance 1km)	-	o
Standards		
Working temperature		-30 -> 70°C
Protection index (when assembled with sealing gasket)		IP65
Degree of humidity (during 48hr)		93% / 40°C

Legend

•	Available
o	Optional
-	Not available
A	Warning Alarm
S	Stop alarm
[a]	Need additional CT
[b]	No. of outputs available for standard configuration. The outputs do not include relays and additional terminal connections.
[c]	If the information is not provided by the engine-ECU, you need an additional sensor

[d]	Needs additional ammeter
[e]	If information provided by the engine ECU
[f]	Required additional sensor
[g]	Requires the addition of the IL-NT-S-USB module
[h]	Requires the addition of the IL-NT-RS232-485 module
[i]	DeepSea: Requires the addition of the DSE891 module/ ComAp: Requires the addition of the IB-LITE module
[j]	DeepSea: Requires the addition of the DSE890 module/ ComAp: Requires the addition of the IL-NT-GPRS module
[l]	DeepSea: Requires the addition of the DSE892 module/ ComAp: Requires the addition of the IB-LITE module

Indicative weights and dimensions. Reference ambient conditions: 100kPa, 25°C, 30% relative humidity and fuel temperature below 40°C. Power in accordance with ISO 8528: Continuous power (PRP): Maximum available power to feed a variable electrical load for an unlimited period. The average of load factor in 24h of operation, shall not exceed 70% of the PRP. Admits 10% of overload during the maximum period of 1h every 12h of operation. The operation under overload shall not exceed 25h/year. Emergency Power (STP): Maximum available power to feed variable electrical load for a maximum period of 200h/year. The average of load factor in 24h of operation shall not exceed 70% of the STP. No overload. These specifications are subject to change without notice.

Distribuidor