



# BMG55BL



Generator Model	Engine brand	Engine Model	Alternator brand	Alternator model	Controller
BMG55BL	Baudouin	4M06G55/5	Nidec Leroy Somer	LSAP 42.3 H	DEIF SGC 120/420
Prime Power KVA/KW	Standby Power KVA/KW	Power Factor/Phase	Fuel Tank	Net weight	Dimensions
50 / 40	55 / 44	0.8/ 3 phase	80	1060	2450*850*1290

**High quality industrial waterproof canopy ensures low noise level 68 DBA (at 7m, 0% load)**

**Standby:** Standby power standby duty, operation under variable load, without overload.

**Prime Power:** Prime Power Continuous duty operation, under variable load, 10% overloads permissible 1/12hr.



# ENGINE TECHNICAL DATA

## ENGINE MODEL: BAUDOUIIN 4M06G55/5

Speed	Gross Engine Output		Net Engine Output	
	PRP	ESP	PRP	ESP
RPM	kW	kW	kW	kW
1500	48	53	46	51

- 1) All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of  $\pm 5\%$ .
- 2) Test conditions: 100 kPa, 25°C air inlet temperature, relative humidity of 30%, with fuel density 0.84 kg/L. Derating may be required for conditions outside these; please contact the factory for details.
- 3) Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump; not included are battery charging alternator, fan and optional equipment.

## BASIC DATA

Engine Model	<b>4M06G55/5</b>
No. of Cylinders/Valves	4/8
Bore x Stroke (mm)	89 x 92
Displacement (L)	2.3
Governor	ECU
Aspiration	Turbocharged and Aftercooled
Compression Ratio	17.5:1
Piston Speed (m/s)	4.6
Air Intake Flow @ ESP (m <sup>3</sup> /min)	2.73
Exhaust Flow @ ESP (m <sup>3</sup> /min)	9.72
Weight (Kg)	286
Cooling fan airflow (m <sup>3</sup> /min)	102



## FUEL CONSUMPTION (L/h)

100% load ESP	13.3
100% load PRP	11.9
75% load PRP	8.9
50% load PRP	6

## LUBRICATION SYSTEM

Oil pressure in normal condition idle speed (Bar)	>=1
Lowest oil pressure alarm (shutdown) (Bar)	1
Max. oil temperature permitted in oil pan (°C)	115
Total system capacity (including filters) (L)	9.2

## COOLING SYSTEM

Coolant alarm (shutdown) temperature (°C)	105
Thermostat adjusting temperature (°C)	72/82
Coolant capacity-engine only(L)	5

## FUEL SYSTEM

Max. restriction at fuel pump inlet (Bar)	0.5
Fuel supply flow (L/hr)	60.5
Max. fuel return restriction (Bar)	0.5
Max. fuel inlet temperature (°C)	50

## ELECTRIC SYSTEM

Battery charger current (A)	50
Starter power (kW)	3.7

## ALTERNATOR TECHNICAL DATA



Brand	NIDEC LEROY SOMER
Model	LSAP 42.3 H
Power	50 kVA
Number of Poles	4
Insulation	Class H
Protection class (according IEC-34-5)	IP23
Exciter system	Self-excited, brushless
Voltage regulator	A.V.R. (Electronic)
Bracket type	Single bearing

# GENSET CONTROLLER DEIF SGC120/420

<b>Control</b>	Auto/Start/Stop Control	
	Emergency Stop Pushbutton/ Alarm	
Engine Cool Down Timer		
Warm - up Timer		
Load Switching Timer		
Engine Cycle Crank		
<b>Indications</b>	Operating Hours	
	3 Phase Generator Voltage Sensing & Monitoring	
	Current Protection & Monitoring	
	Power Measurement (kW, kVA, kVA <sub>r</sub> , kWh, kVAh, pf)	
	Frequency Monitoring (Hz)	
<b>Warning &amp; Shutdown Alarms</b>	Oil Pressure/Coolant Temperature/Fuel Level Monitoring	
	Battery Voltage Monitoring (DC)	
	Alarm (Acknowledge)	
	Generator Over/Under Voltage & Frequency	
	Crank Disconnect (Failure to Start)	
	Under/Over Speed	
	Over Current	
Low oil pressure		
High Water Temperature		
Low Fuel Level		
Low Water Level		
<b>Features</b>	IP 65 (if ordered with gasket)	
	Basic Scheduler	
	8 - 35V DC Supply	
	Digital Inputs(4) - Outputs(4 MPU/ 6 CAN)	
Event Log (5 shutdowns)		

Disclaimer: In line with continuous product development, we reserve the right to change specifications without notice.

**BMGPOWER**

**MOTEURS Baudouin**

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