



# BMG25BL



Generator Model	Engine brand	Engine Model	Alternator brand	Alternator model	Controller
BMG25BL	Baudouin	4M06G25/5	Nidec Leroy Somer	LSAP 42.3 B	DEIF SGC 120/420
Prime Power KVA/KW	Standby Power KVA/KW	Power Factor/ Phase	Fuel Tank	Net weight	Dimensions
23 / 18.4	25 / 20	0.8/ 3 phase	73	890	2250*850*1290

**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 4M06G25/5

Speed	Gross Engine Output		Net Engine Output	
	PRP	ESP	PRP	ESP
RPM	kW	kW	kW	kW
1500	23	25	22	24

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	4M06G25/5
No. of Cylinders/Valves	4/8
Bore x Stroke (mm)	89 x 92
Displacement (L)	2.3
Governor	Electronic
Aspiration	Natural
Compression Ratio	17.5:1
Piston Speed (m/s)	4.6
Air Intake Flow @ ESP (m <sup>3</sup> /min)	1.44
Exhaust Flow @ ESP (m <sup>3</sup> /min)	5.32
Weight (Kg)	261
Cooling fan airflow (m <sup>3</sup> /min)	63



## FUEL CONSUMPTION (L/h)

100% load ESP	7.1
100% load PRP	6.1
75% load PRP	4.5
50% load PRP	3.2

## LUBRICATION SYSTEM

Oil pressure in normal condition idle speed (Bar)	$\geq 1$
Lowest oil pressure alarm (shutdown) (Bar)	1
Max. oil temperature permitted in oil pan (°C)	115
Total system capacity (including filters) (L)	11.5

## 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)	40.2
Max. fuel return restriction (Bar) >	0.5
Max. fuel inlet temperature (°C) >	50

## ELECTRIC SYSTEM

Battery charger current (A)	55
Starter power (kW)	3

## ALTERNATOR TECHNICAL DATA



Brand	NIDEC LEROY SOMER
Model	LSAP 42.3 B
Power	25 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
<b>Indications</b>	Engine Cool Down Timer
	Warm - up Timer
<b>Warning &amp; Shutdown Alarms</b>	Load Switching Timer
	Engine Cycle Crank
<b>Features</b>	Operating Hours
	3 Phase Generator Voltage Sensing & Monitoring
<b>Warning &amp; Shutdown Alarms</b>	Current Protection & Monitoring
	Power Measurement (kW, kVA, kVAr, kWh, kVAh, pf)
<b>Features</b>	Frequency Monitoring (Hz)
	Oil Pressure/Coolant Temperature/Fuel Level Monitoring
<b>Warning &amp; Shutdown Alarms</b>	Battery Voltage Monitoring (DC)
	Alarm (Acknowledge)
<b>Features</b>	Generator Over/Under Voltage & Frequency
	Crank Disconnect (Failure to Start)
<b>Warning &amp; Shutdown Alarms</b>	Under/Over Speed
	Over Current
<b>Features</b>	Low oil pressure
	High Water Temperature
<b>Warning &amp; Shutdown Alarms</b>	Low Fuel Level
	Low Water Level
<b>Features</b>	IP 65 (if ordered with gasket)
	Basic Scheduler
<b>Warning &amp; Shutdown Alarms</b>	8 - 35V DC Supply
	Digital Inputs(4) - Outputs(4 MPU/ 6 CAN)
<b>Features</b>	Event Log (5 shutdowns)



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



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