



# BMG500BL



Generator Model	Engine brand	Engine Model	Alternator brand	Alternator model	Controller
BMG500BL	Baudouin	6M21G500/5	Nidec Leroy Somer	LSAP 47 C	DEIF SGC120/420
Prime Power KVA/KW	Standby Power KVA/KW	Power Factor/Phase	Fuel Tank	Net weight	Dimensions
450 / 360	500 / 400	0.8/ 3 phase	700	5000	4550*1850*2450

**High quality industrial waterproof canopy ensures low noise level 75 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 6M21G500/5

Speed	Gross Engine Output		Net Engine Output	
	PRP	ESP	PRP	ESP
RPM	kW	kW	kW	kW
1500	409	450	389	430

- 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>6M21G500/5</b>
No. of Cylinders/Valves	6/24
Bore x Stroke (mm)	127 x 165
Displacement (L)	12.54
Governor	ECU
Aspiration	Turbocharged and Aftercooled
Compression Ratio	16:1
Piston Speed (m/s)	8.25
Air Intake Flow @ ESP (m <sup>3</sup> /min)	28.8
Exhaust Flow @ ESP (m <sup>3</sup> /min)	99
Weight (Kg)	1160
Cooling fan airflow (m <sup>3</sup> /min)	550



## FUEL CONSUMPTION (L/h)

100% load ESP	110.1
100% load PRP	95.9
75% load PRP	69.6
50% load PRP	46.6

## LUBRICATION SYSTEM

Oil pressure in normal condition idle speed (Bar)	1.3-2.5
Lowest oil pressure alarm (shutdown) (Bar)	1
Max. oil temperature permitted in oil pan (°C)	105
Total system capacity (including filters) (L)	34

## COOLING SYSTEM

Coolant alarm (shutdown) temperature (°C)	105
Thermostat adjusting temperature (°C)	76 / 88
Coolant capacity-engine only(L)	25

## FUEL SYSTEM

Max. restriction at fuel pump inlet (Bar)	0.5
Fuel supply flow (L/hr)	400
Max. fuel return restriction (Bar)	0.5
Max. fuel inlet temperature (°C)	50

## ELECTRIC SYSTEM

Battery charger current (A)	70
Starter power (kW)	8.5

## ALTERNATOR TECHNICAL DATA



Brand	NIDEC LEROY SOMER
Model	LSAP 47 C
Power	500 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 SGC 120/420

<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>Indications</b>	Current Protection & Monitoring
	Power Measurement (kW, kVA, kVA <sub>r</sub> , kWh, kVAh, pf)
<b>Warning &amp; Shutdown Alarms</b>	Frequency Monitoring (Hz)
	Oil Pressure/Coolant Temperature/Fuel Level Monitoring
<b>Features</b>	Battery Voltage Monitoring (DC)
	Alarm (Acknowledge)
<b>Warning &amp; Shutdown Alarms</b>	Generator Over/Under Voltage & Frequency
	Crank Disconnect (Failure to Start)
<b>Features</b>	Under/Over Speed
	Over Current
<b>Warning &amp; Shutdown Alarms</b>	Low oil pressure
	High Water Temperature
<b>Features</b>	Low Fuel Level
	Low Water Level
<b>Features</b>	IP 65 (if ordered with gasket)
	Basic Scheduler
<b>Features</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.

**BMGPOWER**

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