



# BMG440BL



Generator Model	Engine brand	Engine Model	Alternator brand	Alternator model	Controller
BMG440BL	Baudouin	6M21G440/5	Nidec Leroy Somer	LSAP 47 A1	DEIF SGC120/420
Prime Power KVA/KW	Standby Power KVA/KW	Power Factor/Phase	Fuel Tank	Net weight	Dimensions
400 / 320	440 / 352	0.8/ 3 phase	700	4850	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 6M21G440/5

Speed	Gross Engine Output		Net Engine Output	
	PRP	ESP	PRP	ESP
RPM	kW	kW	kW	kW
1500	368	405	345	382

- 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>6M21G440/5</b>
No. of Cylinders/Valves	6/24
Bore x Stroke (mm)	127 x 165
Displacement (L)	12.54
Governor	Electronic
Aspiration	Turbocharged and Aftercooled
Compression Ratio	16:1
Piston Speed (m/s)	8.25
Air Intake Flow @ ESP (m <sup>3</sup> /min)	27
Exhaust Flow @ ESP (m <sup>3</sup> /min)	69
Weight (Kg)	1150
Cooling fan airflow (m <sup>3</sup> /min)	398



## FUEL CONSUMPTION (L/h)

100% load ESP	94.8
100% load PRP	85.5
75% load PRP	63.5
50% load PRP	43.2

## 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)	169
Max. fuel return restriction (Bar)	0.5
Max. fuel inlet temperature (°C)	50

## ELECTRIC SYSTEM

Battery charger current (A)	70
Starter power (kW)	7.5

## ALTERNATOR TECHNICAL DATA



Brand	NIDEC LEROY SOMER
Model	LSAP 47 A1
Power	400 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	
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	
<b>Features</b>	Low oil pressure	
	High Water Temperature	
	Low Fuel Level	
	Low Water Level	
	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**

**INNOVATIVE POWER SOLUTION**  
Authorized Partner of  **Baudouin** In Viet Nam

Head Office: No 31 lane 92, Nguyen Khanh Toan Str,  
Cau Giay Dist, Ha Noi, Vietnam.  
[www.bmgpower.vn](http://www.bmgpower.vn)

**BAUDOIN ENGINES**  
Made in India  
[www.baudouin.com](http://www.baudouin.com)  
[www.baudouinpower.vn](http://www.baudouinpower.vn)