



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

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	6M21G500/5
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 ³ /min)	28.8
Exhaust Flow @ ESP (m ³ /min)	99
Weight (Kg)	1160
Cooling fan airflow (m ³ /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

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

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



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