



BMG400BL



Generator Model	Engine brand	Engine Model	Alternator brand	Alternator model	Controller
BMG400BL	Baudouin	6M21G400/5	Nidec Leroy Somer	LSAP 47 A1	DEIF SGC 120/420
Prime Power KVA/KW	Standby Power KVA/KW	Power Factor/ Phase	Fuel Tank	Net weight	Dimensions
375 / 300	400 / 320	0.8/ 3 phase	700	4720	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 6M21G400/5

Speed	Gross Engine Output		Net Engine Output	
	PRP	ESP	PRP	ESP
RPM	kW	kW	kW	kW
1500	350	385	327	362

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	6M21G400/5
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 ³ /min)	24
Exhaust Flow @ ESP (m ³ /min)	65
Weight (Kg)	1150
Cooling fan airflow (m ³ /min)	398



FUEL CONSUMPTION (L/h)

100% load ESP	91.3
100% load PRP	82.1
75% load PRP	60.7
50% load PRP	41

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

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



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



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