



BMG50BL



Generator Model	Engine brand	Engine Model	Alternator brand	Alternator model	Controller
BMG50BL	Baudouin	4M06G50/5	Nidec Leroy Somer	LSAP 42.3 G	DEIF SGC 120/420
Prime Power KVA/KW	Standby Power KVA/KW	Power Factor/Phase	Fuel Tank	Net weight	Dimensions
45 / 36	50 / 40	0.8/ 3 phase	80	1060	2450*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: BAUDOUIN 4M06G50/5

Speed	Gross Engine Output		Net Engine Output	
	PRP	ESP	PRP	ESP
RPM	kW	kW	kW	kW
1500	44	48	42	46

- 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	4M06G50/5
No. of Cylinders/Valves	4/8
Bore x Stroke (mm)	89 x 92
Displacement (L)	2.3
Governor	Electronic
Aspiration	Turbocharged and Aftercooled
Compression Ratio	17.5:1
Piston Speed (m/s)	4.6
Air Intake Flow @ ESP (m ³ /min)	2.7
Exhaust Flow @ ESP (m ³ /min)	9.42
Weight (Kg)	286
Cooling fan airflow (m ³ /min)	102



FUEL CONSUMPTION (L/h)

100% load ESP	11.7
100% load PRP	10.7
75% load PRP	8
50% load PRP	5.4

LUBRICATION SYSTEM

Oil pressure in normal condition idle speed (Bar)	≥ 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)	45
Max. fuel return restriction (Bar)	0.5
Max. fuel inlet temperature (°C)	50

ELECTRIC SYSTEM


Battery charger current (A)	55
Starter power (kW)	3.7

ALTERNATOR TECHNICAL DATA



Brand	NIDEC LEROY SOMER
Model	LSAP 42.3 G
Power	45 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

Control	Auto/Start/Stop Control Emergency Stop Pushbutton/ Alarm Engine Cool Down Timer Warm - up Timer Load Switching Timer Engine Cycle Crank	
Indications	Operating Hours 3 Phase Generator Voltage Sensing & Monitoring Current Protection & Monitoring Power Measurement (kW, kVA, kVA _r , kWh, kVAh, pf) Frequency Monitoring (Hz) Oil Pressure/Coolant Temperature/Fuel Level Monitoring Battery Voltage Monitoring (DC) Alarm (Acknowledge)	
Warning & Shutdown Alarms	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	
Features	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.



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