BMG55BL

Generator Model	Engine brand	Engine Model	Alternator brand	Alternator model	Controller
BMG55BL	Baudouin	4M06G55/5	Nidec Leroy Somer	LSAP 42.3 H	DEIF SGC 120/420

Prime Power KVA/KW	Standby Power KVA/KW	Power Factor/Phase	Fuel Tank	Net weight	Dimensions
50 / 40	55 / 44	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.

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Certif ed Environmental Management ISO 14001: 2015

Certif ed Occupational Health & Safety OHSAS 18001: 2007

ENGINE TECHNICAL DATA

ENGINE MODEL: BAUDOUIN 4M06G55/5

Speed	Gross Engine Output		Net Engine Output	
	PRP	ESP	PRP	ESP
RPM	kW	kW	kW	kW
1500	48	53	46	51

1) All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of ±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	**4M06G55/5**
No. of Cylinders/Valves	4/8
Bore x Stroke (mm)	89 x 92
Displacement (L)	2.3
Governor	ECU
Aspiration	Turbocharged and Aftercooled
Compression Ratio	17.5:1
Piston Speed (m/s)	4.6
Air Intake Flow @ ESP (m^3/min)	2.73
Exhaust Flow @ ESP (m^3/min)	9.72
Weight (Kg)	286
Cooling fan airflow (m^3/min)	102

FUEL CONSUMPTION (L/h)	
100% load ESP	13.3
100% load PRP	11.9
75% load PRP	8.9
50% load PRP	6
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 (℃)	115
Total system capacity (including filters) (L)	9.2
COOLING SYSTEM	
Coolant alarm (shutdown) temperature (°C)	105
Thermostat adjusting temperature (℃)	72/82
Coolant capacity-engine only(L)	5
FUEL SYSTEM	
Max. restriction at fuel pump inlet (Bar)	0.5
Fuel supply flow (L/hr)	60.5
Max. fuel return restriction (Bar)	0.5
Max. fuel inlet temperature (°C)	50
ELECTRIC SYSTEM	
Battery charger current (A)	50
Starter power (kW)	3.7

ALTERNATOR TECHNICAL DATA

Brand	**NIDEC LEROY SOMER**
Model	LSAP 42.3 H
Power	50 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, kVAr, 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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