

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

High quality industrial waterproof canopy ensures low noise level 68 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: BAUDOUIN 4M06G55/5

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

All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of ±5%.
 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.

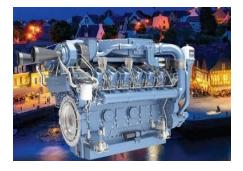
3) Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump; not included are battery charging alternator, fan and optional equipment.

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 (m³/min)	2.73	
Exhaust Flow @ ESP (m³/min)	9.72	
Weight (Kg)	286	
Cooling fan airflow (m³/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 (°C)	115
Total system capacity (including filters) (L)	9.2
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)	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



SAP 42.3 H 50 kVA
4
4
Class H
IP23
xcited, brushless
.R. (Electronic)

GENSET CONTROLLER DEIF SGC120/420

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