



BMG1650BL

Generator Model	Engine brand	Engine Model	Alternator brand	Alternator model	Controller
BMG1650BL	Baudouin	12M33G1650/5	Nidec Leroy Somer	LSA50.2 VL10	Datakom D300 MK3
Prime Power KVA/KW	Standby Power KVA/KW	Power Factor/ Phase	Fuel Tank	Net weight KG	Dimensions Mm (open)
1500/1200	1650/1320	0.8 / 3 phase	N/A	10000	5000*2000*2780

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 12M33G1650/5

Speed	Gross Engine Output		Net Engine Output	
	PRP	ESP	PRP	ESP
RPM	kW	kW	kW	kW
1500	1350	1450	1293	1393

- 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	12M33G1650/5
No. of Cylinders/Valves	12/48
Bore x Stroke (mm)	150 x 185
Displacement (L)	39.2
Governor	ECU
Aspiration	Turbocharged and Aftercooled
Compression Ratio	15:1
Piston Speed (m/s)	9.25
Air Intake Flow @ ESP (m ³ /min)	91.9
Exhaust Flow @ ESP (m ³ /min)	318.5
Weight (Kg)	4575
Cooling fan airflow (m ³ /min)	2100



FUEL CONSUMPTION (L/h)

100% load ESP	354.2
100% load PRP	324
75% load PRP	234.2
50% load PRP	156.1

LUBRICATION SYSTEM

Oil pressure in normal condition idle speed (Bar)	≥ 2
Lowest oil pressure alarm (shutdown) (Bar)	2
Max. oil temperature permitted in oil pan (°C)	105
Total system capacity (including filters) (L)	160

COOLING SYSTEM

Coolant alarm (shutdown) temperature (°C)	103
Thermostat adjusting temperature (°C)	80/92
Coolant capacity-engine only(L) >	83

FUEL SYSTEM

Max. restriction at fuel pump inlet (Bar)	0.5
Fuel supply flow (L/hr)	1900
Max. fuel return restriction (Bar) conditon < kPa >	0.2
Max. fuel inlet temperature (°C)	50

ELECTRIC SYSTEM

Battery charger current (A)	55
Starter power (kW)	2x8.5

ALTERNATOR TECHNICAL DATA



Brand	NIDEC LEROY SOMMER
Model	LSA50.2 VL10
Power	1640 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 DATAKOM D-300MK3

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
Indications	Current Protection & Monitoring
	Power Measurement (kW, kVA, kVA _r , kWh, kVA _h , pf)
Warning & Shutdown Alarms	Frequency Monitoring (Hz)
	Oil Pressure/Coolant Temperature/Fuel Level Monitoring
Features	Battery Voltage Monitoring (DC)
	Alarm (Acknowledge)
Warning & Shutdown Alarms	Generator Over/Under Voltage & Frequency
	Crank Disconnect (Failure to Start)
Features	Under/Over Speed
	Over Current
Warning & Shutdown Alarms	Low oil pressure
	High Water Temperature
Features	Low Fuel Level
	Low Water Level
Features	IP 65 (if ordered with gasket)
	Basic Scheduler
Features	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.

BMG
Generators

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