



# BMG1400BL

Generator Model	Engine brand	Engine Model	Alternator brand	Alternator model	Controller
BMG1400BL	Baudouin	12M33G1400/5	Nidec Leroy Somer	LSA50.2 M6	Datakom D300 MK3
Prime Power KVA/KW	Standby Power KVA/KW	Power Factor/ Phase	Fuel Tank	Net weight KG	Dimensions Mm (open)
1250/1000	1400/1120	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 12M33G1400/5

Speed	Gross Engine Output		Net Engine Output	
	PRP	ESP	PRP	ESP
RPM	kW	kW	kW	kW
1500	1100	1210	1043	1153

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	12M33G1400/5
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 <sup>3</sup> /min)	76.3
Exhaust Flow @ ESP (m <sup>3</sup> /min)	277.2
Weight (Kg)	4575
Cooling fan airflow (m <sup>3</sup> /min)	2100



## FUEL CONSUMPTION (L/h)

100% load PRP	258.6
75% load PRP	190.7
50% load PRP	129.2

## LUBRICATION SYSTEM

Oil pressure in normal condition idle speed (Bar)	$\geq 2$
Lowest oil pressure alarm (shutdown) (Bar)	2
Max. oil temperature permitted in oil pan ( $^{\circ}\text{C}$ )	105
Total system capacity (including filters) (L)	160

## COOLING SYSTEM

Coolant alarm (shutdown) temperature ( $^{\circ}\text{C}$ )	103
Thermostat adjusting temperature ( $^{\circ}\text{C}$ )	80/92
Coolant capacity-engine only(L) $\rangle$	83

## FUEL SYSTEM

Max. restriction at fuel pump inlet (Bar)	0.5
Fuel supply flow (L/hr)	1900
Max. fuel return restriction (Bar) condition $\langle$ kPa $\rangle$	0.2
Max. fuel inlet temperature ( $^{\circ}\text{C}$ )	50

## ELECTRIC SYSTEM

Battery charger current (A)	55
Starter power (kW)	10

## ALTERNATOR TECHNICAL DATA



Brand	NIDEC LEROY SOMMER
Model	LSA50.2 M6
Power	1250 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

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

Head Office: No 31 lane 92, Nguyen Khanh Toan Str,  
Cau Giay Dist, Ha Noi, Vietnam.  
[www.bmgpower.vn](http://www.bmgpower.vn)

[www.baudouin.com](http://www.baudouin.com)  
[www.baudouinpower.vn](http://www.baudouinpower.vn)