



BMG220BL



| Generator Model | Engine brand | Engine Model | Alternator brand | Alternator model | Controller |
|-----------------------|-------------------------|------------------------|----------------------|------------------|------------------|
| BMG220BL | Baudouin | 6M16G220/5 | Nidec Leroy Somer | LSAP 45 M1 | DEIF SGC 120/420 |
| Prime Power KVA/KW | Standby Power KVA/KW | Power Factor/ Phase | Fuel Tank | Net weight | Dimensions |
| 200 / 160 | 220 / 176 | 0.8/ 3 phase | 600 | 3700 | 4000*1400*2260 |

High quality industrial waterproof canopy ensures low noise level 72 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 6M16G220/5

| Speed | Gross Engine Output | | Net Engine Output | |
|-------|---------------------|-----|-------------------|-----|
| | PRP | ESP | PRP | ESP |
| RPM | kW | kW | kW | kW |
| 1500 | 187 | 204 | 175 | 192 |

- 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 | 6M16G220/5 |
| No. of Cylinders/Valves | 6/12 |
| Bore x Stroke (mm) | 126 x 130 |
| Displacement (L) | 9.726 |
| Governor | Electronic |
| Aspiration | Turbocharged and Aftercooled |
| Compression Ratio | 17:1 |
| Piston Speed (m/s) | 6.5 |
| Air Intake Flow @ ESP (m ³ /min) | 14.4 |
| Exhaust Flow @ ESP (m ³ /min) | 38.15 |
| Weight (Kg) | 972 |
| Cooling fan airflow (m ³ /min) | 415 |



FUEL CONSUMPTION (L/h)

| | |
|---------------|------|
| 100% load ESP | 46.9 |
| 100% load PRP | 43.1 |
| 75% load PRP | 32.4 |
| 50% load PRP | 22.4 |

LUBRICATION SYSTEM

| | |
|---|---------|
| Oil pressure in normal condition idle speed (Bar) | 1.3-2.8 |
| Lowest oil pressure alarm (shutdown) (Bar) | 1 |
| Max. oil temperature permitted in oil pan (°C) | 105 |
| Total system capacity (including filters) (L) | 30 |

COOLING SYSTEM

| | |
|---|---------|
| Coolant alarm (shutdown) temperature (°C) | 105 |
| Thermostat adjusting temperature (°C) | 71 / 82 |
| Coolant capacity-engine only(L) | 22 |

FUEL SYSTEM

| | |
|---|-----|
| Max. restriction at fuel pump inlet (Bar) | 0.5 |
| Fuel supply flow (L/hr) | 169 |
| Max. fuel return restriction (Bar) | 0.5 |
| Max. fuel inlet temperature (°C) | 50 |

ELECTRIC SYSTEM

| | |
|-----------------------------|-----|
| Battery charger current (A) | 55 |
| Starter power (kW) | 8.5 |

ALTERNATOR TECHNICAL DATA



| | |
|---------------------------------------|-------------------------|
| Brand | NIDEC LEROY SOMER |
| Model | LSAP 45 M1 |
| Power | 200 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 SGC 120/420

| | |
|--------------------------------------|---|
| 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, kVAh, 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.

BMGPOWER

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