

GKB-220

BAUDOUIIN 200KVA

200kVA Prime / 220kVA Standby

Comprehensive Specification Sheet
Electrical and Mechanical Data



 **MOTEURS**
Baudouin

3ph

BAUDOIN, SINCE 1918

For over 100 years, Baudouin has manufactured the highest quality engines for marine and power generation applications. In the hostile environment of a marine operator, reliability and durability are paramount, and Baudouin has been successfully serving this market since 1918.

Today, Baudouin is proud to offer one of the most comprehensive lines of power generation engines available on the market.



Cassis, France

Through the 1960's and 1970's Baudouin manufactured complete generator sets and engines for power generation applications for some of the most prominent generator manufacturers in the world.



HERITAGE

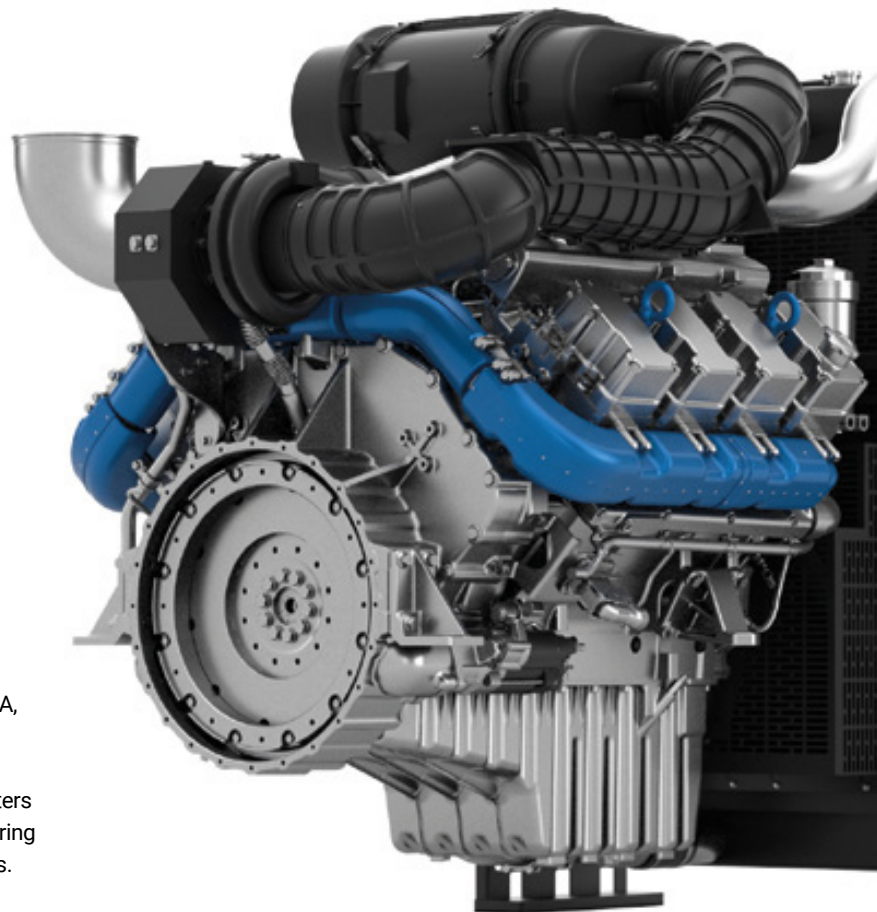
100 years experience in design, manufacturing, support and quality goes into every generator set. You can expect reliability, durability and excellent total cost of ownership from the range of products. Over the life of every generator set, dependability is guaranteed by the strong European quality standards, robust components, and best-in-class warranties.

DESIGN OPTIMISED FOR SERVICE

Easy, fast and cost-effective maintenance and servicing are imperative in heavy industry – and the engines are designed to meet those same requirements. They are economical to run, (thanks to longer intervals between overhauls) and easy to maintain, giving customers a competitive edge.

POWER RANGE

The full range of Baudouin generators spans from 18 to 3,125kVA, a range that few engine manufacturers can match. Baudouin achieves excellence in fuel consumption, load acceptance and power density, making it the range of choice. With nine R&D centers across the world, Baudouin are continuously improving and tailoring their range based on local customer and regulatory requirements.



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FEATURES & BENEFITS

- 220kVA standby power at 230/400v @ 50Hz 1500rpm
- High-quality and reliable six-cylinder 9.726l turbocharged Baudouin diesel engine
- Ideal for home and business applications
- Silent canopy which can stand outside with lockable doors
- Automatic changeover (ATS), maintenance free batteries and trickle charger included
- H-specification insulation, brushless alternator with AVR provides stable output
- High-temperature and oil pressure sensor to protect against engine damage
- Easy to use digital controller with auto/manual start options
- All sets undergo a comprehensive testing/pre-delivery inspection prior to delivery
- Peace of mind of earlier of one year/1000 hour warranty



CANOPY

- Ventilation parts are designed with modular principles
- Weather resistant and lined with sound reducing foam
- All metal canopy parts are painted with powder paint
- Panel window
- Lockable doors on each side
- Easy maintenance and operation
- Easy lifting and moving
- Thermally insulated engine exhaust system
- Exterior emergency stop push button
- Sound attenuated

CHASSIS

- The complete generator set is mounted as a whole on a heavy duty fabricated, steel base frame
- Steel chassis and anti-vibration pads
- Base frame design incorporates an integral fuel tank
- The generator can be lifted or carefully pushed/pulled by the base frame
- Dial type fuel gauge on the fuel tank

Overview

Standby power	220kVA
Prime power	200kVA
Phase	Three
Dry weight	3010kg
Length	3300mm
Width	1500mm
Height	1750mm
Fuel tank capacity	520l

CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

AUTO MAINS FAILURE CONTROL PANEL

- Controller with Smartgen automatic transfer switch
- Smartgen HGM6120N electronic controller
- Emergency stop push button
- Static battery charger
- Four-pole electrically and mechanically interlocked ATS

GENERATING SET CONTROL MODULE SMARTGEN HGM6120N FEATURES

- This module is used to monitor a mains supply and automatically start a standby generating set
- Shutdown alarms
- STOP/RESET-MANUAL-AUTO-TEST-START

METERING VIA LCD DISPLAY

- Mains volts (L-L/L-N)
- Generator amps (L1, L2, L3)
- Generator frequency; generator (cos)
- Engine hours run; plant battery (volts)
- Engine oil pressure (psi and bar)

- Engine speed (rpm)
- Engine temperature (degrees C)

AUTOMATIC SHUTDOWN AND FAULT CONDITIONS

- Under/over speed; fail to start
- High engine temperature; fail to stop
- Low oil pressure; charge fail
- Under/over generator volts
- Under/over generator frequency
- Emergency stop/start failure
- Under/over mains voltage
- Charge failure

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TECHNICAL SPECIFICATIONS

*All ratings are quoted at maximum ratings at sea level and derating will be applicable for altitude and power factor.

Engine

Engine make	Baudouin
Engine model	6M16G220/5
Displacement	9.726l
Cylinder bore/Stroke	126mm x 130mm
Fuel system	In-line fuel injection pump
Governor	Electronic
Cylinders	Six cylinders water cooled
Engine output power (1500rpm)	175kW
Turbocharged/normally aspirated	Turbocharged
Cycle	Four stroke
Combustion system	Direct injection
Compression ratio	17:01
Fuel tank capacity	520l
Fuel consumption 100%	43.1 l/h
Fuel consumption 75%	32.4 l/h
Fuel consumption 50%	22.4 l/h
Fuel consumption 25%	12.6 l/h
Oil type	15W40
Engine oil capacity	22l
Cooling method	Water-cooled radiator/fan
Coolant capacity	35l
Starter	24v DC charge alternator
Engine speed	1500rpm
Filters	Replaceable fuel filter/oil filter/dry element air filter
Battery	Maintenance-free battery including rack and cables
Silencer	Exhaust silencer

Alternator

Alternator make	StromerPower
Standby power output	220kVA
Prime power output	200kVA
Insulation class	Class-H with circuit breaker protection
Type	Brushless
Phase and connection	Three phase/four wire
AVR	Included
AVR model	SX460
Voltage regulation	± 1%
Voltage	230/400v
Rated frequency	50Hz
Voltage regulate change	≤ ±10% UN
Phase change rate	± 1%
Power factor	0.8φ
Protection class	IP23 standard/screen protected/drip-proof
Stator	2/3 pitch
Rotor	Single bearing
Excitation	Self-exciting
Regulation	Self-regulating

General

Structure type	Silent weather resistant enclosure
Dimensions Length x Width x Height	3300mm x 1150mm x 1750mm
Dry weight	3010kg
ATS unit included	Included
Four-way protection system included	Included