



# KAPLAN POWER YOUR FUTURE

MANUFACTURING HIGHEST QUALITY GENERATORS

Powered By: **BAUDOUIN**

Model: KPB 220 | Engine: 6M16G220/5E2 | Controller: D300

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## Diesel Generator

Model: KPB 220 | Engine: 6M16G220/5E2 | Controller: D300



### Standby Ratings [ESP]

Three Phase Rating, 50HZ, PF 0.8, Noise Level 75. dBA

| Voltage | KVa    | KW     |
|---------|--------|--------|
| 400/230 | 226.00 | 181.00 |



### Standard Features

- 4 Stroke, 1500 RPM, water cooled heavy duty diesel engine
- Protection system on Manual run
- Flexible oil pipes and oil draining valve
- Pre-heater
- Lubrication oil and anti-freeze
- Batteries and cables
- Electrostatic paint coated, steel, welded chassis
- Fuel tank housed in the chassis
- Industrial type silencer
- Electronic battery charger
- Electrical wiring diagram
- User manual and operating manual
- Automatic working time 10 second

### Optional Equipment

#### Engine

- Remote Radiator Cooling
- Oil heater
- Fuel-Water Separator Filter

#### Alternator

- Main line circuit breaker
- Anti-Condensation Heater
- Over sized alternator

#### Control System

- Remote communication with modem
- Alarm output relays/ Charge Ammeter
- Automatic synchronizing

### Others Accessories [Optional]

- Automatic transfer switch
- Remote control and monitoring
- Alarm system for fuel level
- Trailer
- 1 Phase - 3 Phase switch plugs
- 1500/3000 hours maintenance kit
- Tool kit for maintenance
- Inlet and outlet acoustic baffles
- Inlet and outlet motorized louvers
- Main Fuel Tank
- Supplied with oil and coolant - 30 °C

### Stand By Power

Supplying of emergency electrical power at variable load, in the event of normal utility power failure. This rating is maximum power, no overload capability is available.

### Prime Power

Supplying of electrical power at variable load for an unlimited number of hours in the event of normal utility power failure. 10% over load capability is available.

## Diesel Engine Specifications

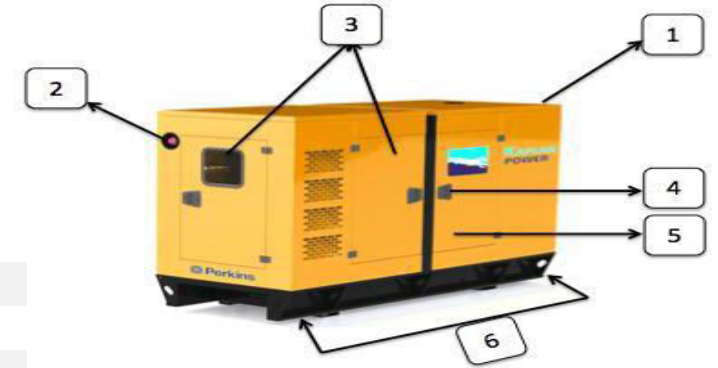
|                          |                             |
|--------------------------|-----------------------------|
| Manufacturer             | <b>BAUDOUIIN</b>            |
| Model                    | <b>6M16G220/5E2</b>         |
| No. of Cylinders & Build | <b>06 Cylinder, In Line</b> |
| Aspiration and Cooling   | <b>TURBO CHARGED</b>        |
| Maximum Standby Power    | <b>181.5 Kw</b>             |
| Total Displacement       | <b>9.72 L</b>               |
| Bore & Stroke            | <b>105x130 mm</b>           |
| Compression Ratio        | <b>18:01:00</b>             |
| Rated Speed [RPM]        | <b>1500 rpm</b>             |
| Governor                 | <b>Electronic</b>           |
| Oil Capacity             | <b>16 L</b>                 |
| Coolant Capacity         | <b>25 L</b>                 |
| Start System             | <b>24 V D.c.</b>            |
| Fuel Consumption         | <b>100% Load</b>            |
| L/H                      | <b>41.2</b>                 |

**Replaceable cylinder jacket**  
**Dry type replaceable oil filter**  
**Heat-resistant radiator for 50 °C**

## Alternator Specifications

|                               |                              |
|-------------------------------|------------------------------|
| Make                          | <b>KAPLAN POWER</b>          |
| Model                         | <b>KPA 220</b>               |
| Short Circuit Current         | <b>&gt; 300%</b>             |
| Frequency                     | <b>50 Hz</b>                 |
| Power                         | <b>220 kVa</b>               |
| Design                        | <b>Brushless, 4 Poles</b>    |
| Phase                         | <b>3P V</b>                  |
| Voltage                       | <b>400/230 V</b>             |
| Current                       | <b>316.8 A</b>               |
| Insulation Class              | <b>H</b>                     |
| Stator                        | <b>2 / 3 steps</b>           |
| Rotor                         | <b>Single Bearing System</b> |
| Excitation System             | <b>Electronic AVR</b>        |
| Stationary Voltage Regulation | <b>1% (+/-)</b>              |
| Connection Type               | <b>Star</b>                  |

**4 Poles, Self-Excitation, Brushless, Synchro type alternator**  
**Electronic type automatic voltage regulator (AVR)**  
**Self Cooled**



- 1. Steel Structures**
- 2. Emergency stop bush button**
- 3. Control panel o be place both right and front**
- 4. Corrosion resistant locks and hinges**
- 5. Sound proof foam material**

## Introduction

Sound proof authenticated and Weather insulated Enclosures for generating sets from Kaplan, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

### Standard Specifications

1. Compact footprint, low profile design.
2. Exhaust system inside canopy
3. Large doors on each side
4. Body made from steel components treated with polyester powder coating
5. Lifting points on the base frame
6. Cooling fan and battery charging alternator fully guarded
7. Kaplan makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level

|                    |    |      |
|--------------------|----|------|
| Width              | mm | 1100 |
| Length             | mm | 3000 |
| Height             | mm | 1400 |
| Standard Fuel Tank | L  | 300  |

**WARNING**

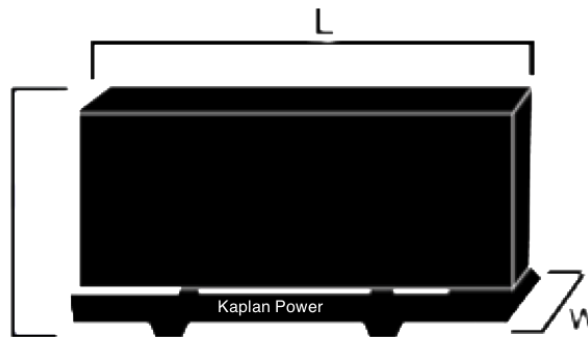
Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

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### Dimensions With Canopy

#### Dimensions & Weight

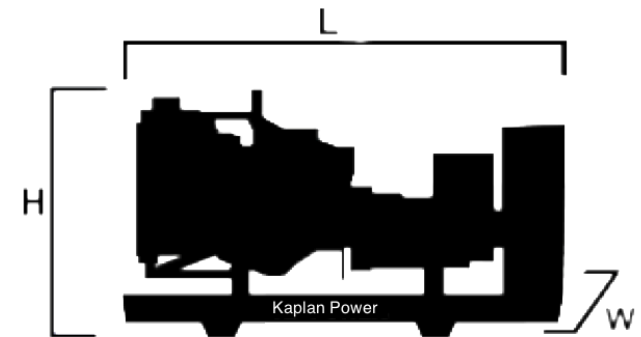
|                    |    |      |
|--------------------|----|------|
| Length (L)         | mm | 3000 |
| Height (H)         | Mm | 1400 |
| Width (W)          | Mm | 1100 |
| Net Weight         | Kg | 2200 |
| Standard Fuel Tank | L  | 300  |



### Dimensions Without Canopy

#### Dimensions & Weight

|                    |    |      |
|--------------------|----|------|
| Length (L)         | mm | 3000 |
| Height (H)         | Mm | 1305 |
| Width (W)          | Mm | 1100 |
| Net Weight         | Kg | 1700 |
| Standard Fuel Tank | L  | 300  |



## Control Panel Features



- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable language
- Waveform display of V & I
- Harmonic analysis of V & I
- Synchroscope & check synch
- Allows closed transfers
- 16Amp MCB & GCB outputs
- 8 configurable digital outputs
- Outputs expandable to 40
- 4 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple nominal conditions
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Contactor & MCB drive
- 4 quadrant power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem & Ethernet diagnostics
- Configurable through USB,RS-485, Ethernet and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring Ethernet and GPRS
- Mobile genset support
- Automatic GSM geo-location
- GPS connectivity ( USB & RS232 )
- Dynamic DNS support
- Easy USB firmware upgrade
- IP65 rating with standard gaske