

**50 Hz Diesel Generator Set** 

## About Product

**IDE** 

IDEA generator sets are designed to be used as backup or continuous power supply. They are subjected to detailed load and performance tests in our production facilities in order to provide ideal performance and safe usage.



#### **Power Output Values**

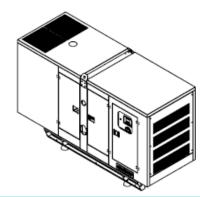
Voltage	Standby Power (ESP)			Prime Power (PRP)		
	kVA	kW	Ampere	kVA	kW	Ampere
400/231	220 kVA	176 kW	318	200 kVA	160 kW	289

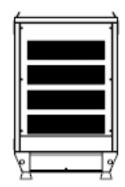
**Standby Power (ESP) :** This rating is for the supply of continuous electrical power at variable load , in the event of utility power failure. No overload is permitted.

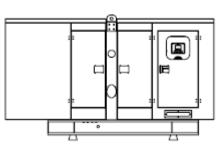
**Prime Power (PRP) :** This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

## Weight And Dimensions

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @7mt
Open	1200x2700x1600 mm	1650 kg	300 lt	-
Soundproofed	1200x3800x2100 mm	2130 kg	300 lt	79









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REV NO:2020-00

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#### Engine

Frequency		50 Hz		
Output Rating	kW	204		
Manufacturer and Model		Baudouin 6M16G2D0/S - 6M16G220/5		
Fuel		Diesel		
Injection		Direct		
Aspiration		Turbocharged and Aftercooled		
Cylinders		6		
Bore and Stroke	mm	126 x 130		
Displacement	lt	9,726		
Cooling		Water		
Engine Oil Specification		SAE 15W40		
Compression Ratio		17:1		
Engine Oil Capacity(Sump Only)	lt	22		
Coolant Capacity (incl.radiator)	lt	44		
Governor		Electronic		
Air Filter		Dry element		
FUEL CONSUMPTION				
100 % Load	lt/h	43,1		
75 % Load	lt/h	32,4		
50 % Load	lt/h	22,4		
EXHAUST SYSTEM				
Maximum Temperature	°C	700		
Exhaust Gas Flow	m³/min	38 <mark>,1</mark> 5		
Maximum Exhaust Back Pressure	mBar	60		
Exhaust Flange Size (Internal Dia.)	mm	100		
AIR SYSTEM				
Intake Air Flow	m³/min	14,2		
Air Intake Temperature Rise	°C	<15		
STARTING SYSTEM		Y		
Starter Motor	kW	8,5		
Battery Capacity	Ah	2x82		
Auxiliary Voltage	V	24		

### Alternator

Poles	4 pole		
Winding Connections	Star		
Insulation	Class H		
Enclosure	IP23		
Exciter System	Self regulating Brushless		
Voltage Regulator	AVR		
Steady State Voltage Regulation	±1%		
Bearing	Single bearing sealed		
Coupling	Flexible disc		
Cooling	Direct drive centrifugal blower fan		



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INDUSTRIAL RANGE DATASHEET

**50 Hz Diesel Generator Set** 

# IDJ220B

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#### **Control Panel IDP300**

The new IDP300 genset controller is a cost effective modular genset controller ready for internet monitoring through plug-in modules.

Its main advantages are multifunctionality, support for multiple topologies, harmonic analysis and detailed power measurements.



Software features are complete with easy firmware upgrade through USB port. The Windows based PC software allows monitoring and programming through USB, RS-485, RS-232, Ethernet and GPRS.

The Rainbow Scada web service allows monitoring and control of an unlimited number of gensets from a single central location.

#### **Optional Equipments**

Some Optional Equipment IDEA Provides with Generator Sets;

- Remote radiator applications,
- Automatic fuel filling system,
- Fuel tank, oil pan, instrument panel, alternator, coil heaters,
- Synchronization systems,
- Generator output fuse,
- Mains generator transfer switches,
- Seismic solutions,
- Remote monitoring
- Other requested solutions

#### **Reference Standards**

IDEA Generator Sets are CE approved and comply with the following standards;

- Power according to ISO 3046 and ISO 8528
- EN 12100, EN 13857, EN 60204
- 2006/42/CE Machinery Safety
- 2006/95/EC Low Voltage
- 2004/108/CE EMC
- Ambient reference conditions 1000 mbar, 25 °C, 30 % relative humidity ISO8528

All the information in this leaflet is intended for general purposes only. IDEA reserves the right to change the specifications without notice.



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