

**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**

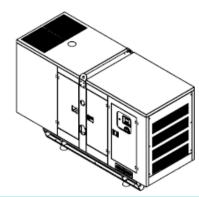
Voltage	Sta	Standby Power (ESP)			Prime Power (PRP)		
	kVA	kW	Ampere	kVA	kW	Ampere	
400/231	440 kVA	352 kW	635	400 kVA	320 kW	578	
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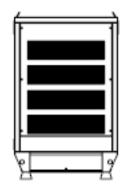
**Standby Power (ESP) :** This rating is for the supply of continuous electrical power at variable load , in the event of utility power failure. No overload is permitted.

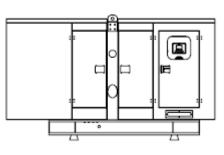
**Prime Power (PRP) :** This rating is for the supply of continuous electrical power at variable load. There is no limitation on the annual hours in operation and 10% overload power can be supplied for 1 hour in 12.

#### Weight And Dimensions

Туре	Width x Length x Height (mm)	Weight (kg)	Fuel Tank (Lt)	Sound dB(A) @1mt
Open	1300x3250x1800 mm	3200 kg	600 lt	-
Soundproofed	1300x4500x2350 mm	3700 kg	600 lt	81









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#### Engine

Frequency		50 Hz	
Output Rating	kW	405	
Manufacturer and Model		Baudouin 6M21G440/5	
Fuel		Diesel	
Injection		Direct	
Aspiration		Turbocharged and Aftercooled	
Cylinders		6	
Bore and Stroke	mm	127 x 165	
Displacement	lt	12,54	
Cooling		Water	
Engine Oil Specification		SAE 15W40	
Compression Ratio		16:1	
Engine Oil Capacity(Sump Only)	lt	30	
Coolant Capacity (incl.radiator)	lt	55	
Governor		Electronic	
Air Filter		Dry element	
FUEL CONSUMPTION			
100 % Load	lt/h	85,5	
75 % Load	lt/h	63,5	
50 % Load	lt/h	43,2	
EXHAUST SYSTEM			
Maximum Temperature	°C	740	
Exhaust Gas Flow	m³/min	<mark>69</mark>	
Maximum Exhaust Back Pressure	mBar	120	
Exhaust Flange Size (Internal Dia.)	mm	100	
AIR SYSTEM			
Intake Air Flow	m³/min	26,7	
Air Intake Temperature Rise	°C	<15	
STARTING SYSTEM		Y	
Starter Motor	kW	7,5	
Battery Capacity	Ah	2x100	
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

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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.

