

# Baudouin 400-550 kVA

## 50 Hz Diesel Generator Set



# Power



Images are for illustration purpose only

### ENGINE

BAUDOUIN heavy duty diesel engine  
4-cycle, water cooled, turbocharged  
Direct injection

12/24 Volt starter and charge  
alternator with battery, rack and  
cables

Replaceable air, fuel and oil filter

Industrial type radiator

Flexible fuel piping

Oil sump drain valve and extension  
pipe

Industrial/Residential type exhaust  
silencer.

Jacket Water Heater

Diesel gen-set maintenance and  
operating instructions and electrical  
circuit diagram

### ALTERNATOR

Brushless, single bearing, 4-pole  
alternator coupled with flexible disc  
coupling

H type insulation class

IP 23 protection

Self exciting

Electronic AVR

### CONTROL PANEL

DeepSea mains sensing or remote  
start control module

Emergency stop push button

Output circuit breaker

Static battery charger

Ready for remote monitoring

### CANOPY

Modular type sound-proof canopy  
Built from galvanized steel and epoxy,  
polyester powder painted

Lockable doors on both sides of  
canopy designed for easy access to  
essential replacement parts

Emergency stop push button

Control Panel viewing window

Bunded base fuel tank (Optional)

Forklift Pockets (Optional)

Power cable entry with a gland plate

### Standby Power

Applicable for supplying  
power to varying electrical  
load for the duration of  
power interruption of a  
reliable utility source,  
Overload is not allowed.

### Prime Power

The maximum power  
which a generating set is  
capable of delivering con-  
tinuously whilst supplying  
a variable electrical load.  
Average load should be  
70%. The generator can  
be overloaded 10% for 1  
hour per 12 hrs.

### Base Power

Continuous power rating  
is used in applications  
where supplying power is  
at a constant 100% load  
for an unlimited number  
of hours each year.



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EA Power Systems Ltd.

3rd Floor St Georges House 6 St Georges Way LE11QZ Leicester  
United Kingdom

www.eapowers.com +44(0)1163180570

Registered in England & Wales No:11023250

 **MOTEURS**  
**Baudouin**

# Baudouin 400-550 kVA

## 50 Hz Diesel Generator Set



# Power

MODEL			EAB400	EAB440	EAB500	EAB550
OUTPUT	Standby	kVA	400	440	500	550
		kW	320	352	400	440
	Prime	kVA	364	400	450	500
		kW	291	320	360	400
ENGINE	Engine		BAUDOUIN	BAUDOUIN	BAUDOUIN	BAUDOUIN
	Model		6M21G385/5	6M21G440/5	6M21G500/5	6M26G550/5
	Configuration		INLINE	INLINE	INLINE	INLINE
	No. of Cylinders		6	6	6	6
	Speed	rpm	1500	1500	1500	1500
	Displacement	l	12.54	12.54	12.54	15.9
	Bore x Stroke	mm	127 x 165	127 x 165	127 x 165	150 x 150
	Compression Ratio		16:1	16:1	16:1	15.7:1
	Aspiration		Turbocharged	Turbocharged	Turbocharged	Turbocharged
	Governor Type		Electronic	Electronic	ECU	Electronic
	Cooling		Water	Water	Water	Water
	Coolant Capacity	l	55	55	55	110.7
	Lubrication Oil Capacity	l	30	30	30	52
	Fuel Consumption l/h	100%Load	82	85.5	110.2	106.8
		75% Load	61	63.5	82.65	79.8
		50%Load	41	43.2	55.1	54.5
ALTERNATOR	Phase		3	3	3	3
	Pole		4	4	4	4
	No. of Leads		12	12	12	12
	Excitation System		AVR	AVR	AVR	AVR
	Insulation Class		H	H	H	H
	IP Protection		IP23	IP23	IP23	IP23
	Power Factor		0.8	0.8	0.8	0.8
	Frequency	Hz	50	50	50	50
	Voltage	V	400	400	400	400
SIZE	Canopy Set Dimensions (LxWxH) & Weight	mm	3705 x 1400 x 2645	3705 x 1400 x 2645	4400 x 1700 x 2960	4400 x 1700 x 2960
		kg	4291	4427	5425	6756
	Open Set Dimensions (LxWxH) & Weight	mm	3450 x 1400 x 1885	3450 x 1400 x 1885	4000 x 1700 x 2210	4000 x 1700 x 2210
		kg	3844	3980	4685	6016
	Fuel Tank Capacity	l	880	880	1272	1272

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### CONTROL MODULE

DSE 7 Series Control Module

State of the art, microprocessor controlled

4line, 64 x 132 pixel display LCD display

Automatic mains failure sensing

Front panel manual programming

User friendly setup and button layout

Remote start

Event logging, showing date and time

Stop/Reset, Manual

### Displays

Engine Speed (rpm)

Oil pressure

Fuel Level (%)

Coolant temperature

Running Hours

Battery voltage monitoring

Generator Voltage (LL. LN)

Generator Current (L1-L2-L3)

Generator Frequency (Hz)

Generator Load & Power Monitoring (kW. kVA. kVAR.  
pf)

Mains Voltage (LL. LN)

Mains Frequency

Generator Set Ready

Mains Ready



### Alarms

High coolant temperature

Low Fuel Level

Low oil pressure

Charge failure

Battery Low/High voltage

Fail to start

Fail to stop

High/Low Generator voltage

Generator Over/Under frequency

Generator Over/Under Speed