

# Baudouin 440-660 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  
24 Volt starter motor, battery charger  
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.  
Maintenance free battery  
Engine jacket water heater.  
Maintenance and operating instructions  
and electrical circuit diagram

### ALTERNATOR

Brushless, single bearing, 4-pole alterna-  
tor coupled with flexible disc coupling  
H type insulation class

IP 23 protection

Self exciting

Electronic AVR

### CONTROL PANEL

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 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)

### Standby Power

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

### Prime Power

The maximum power which  
a generating set is capable  
of delivering continuously  
whilst supplying a variable  
electrical load. Average load  
should be 70%. The genera-  
tor 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 con-  
stant 100% load for an un-  
limited number of hours.



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Registered in England & Wales No:11023250

MOTEURS  
**Baudouin**

# Baudouin 440-660 kVA

## 50 Hz Diesel Generator Set



\*The indicated Prime Power (PRP) is for reference only. This generating set is designed for emergency standby power (ESP) applications only.

MODEL		EAB440	EAB500	EAB550	EAB660	
OUTPUT	Standby	kVA	440	500	550	660
		kW	352	400	440	528
	Prime	kVA	400	455*	500	600
		kW	320	354*	400	480
ENGINE	Engine		BAUDOUIN	BAUDOUIN	BAUDOUIN	BAUDOUIN
	Model		6M21G440/5	6M21G500/5	6M26G550/5	6M33G660/5
	Configuration		INLINE	INLINE	INLINE	INLINE
	No. of Cylinders		6	6	6	6
	Speed	rpm	1500	1500	1500	1500
	Displacement	l	12.54	12.54	15.9	19.6
	Bore x Stroke	mm	127 x 165	127 x 165	150 x 150	150 x 185
	Compression Ratio		16:1	16:1	15.7:1	15:1
	Aspiration		Turbocharged	Turbocharged	Turbocharged	Turbocharged
	Governor Type		Electronic	ECU/Electronic	Electronic	Electronic
	Cooling		Water	Water	Water	Water
	Coolant Capacity	l	55	55	110.7	159
	Lubrication Oil Capacity	l	30	30	52	61
	Fuel Consumption l/h	100%Load	85.5	110.2	106.8	126.5
75% Load		63.5	82.65	79.8	94.1	
50%Load		43.2	55.1	54.5	63.6	
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	4400 x 1700 x 2960	4400 x 1700 x 2960	4500 x 1800 x 2980
		kg	4427	5425	6756	7085
	Open Set Dimensions (LxWxH) & Weight	mm	3450 x 1400 x 1885	4000 x 1700 x 2210	4000 x 1700 x 2210	4290 x 1800 x 2360
		kg	3980	4685	6106	6310
	Fuel Tank Capacity	l	880	1272	1272	1140

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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