Baudouin 440-660 kVA

50 Hz Diesel Generator Set







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 alternator 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

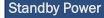
Ready for remote monitoring

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

Emergency stop push button
Control Panel viewing window
Bunded base fuel tank (Optional)





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

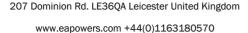
The maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load. Average load should be 70%. The generator can be overloaded 10% for 1 hour per 12 hrs.

Base Power

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

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EA Power Systems Ltd.





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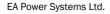
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*The indicated Prime Power (PRP) is for reference only. This generating set is designed for emergency standby power (ESP) applications only

| 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 | 1 | 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 | 1 | 55 | 55 | 110.7 | 159 |
| | Lubrication Oil Capacity | I | 30 | 30 | 52 | 61 |
| | Fuel Consumption I/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 | | Н | н | н | Н |
| | 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 EA Power Systems reserves the | 1 | 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



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