



# Power



Images are for illustration purpose only



### ENGINE

Baudouin heavy duty diesel engine  
4-cycle, water cooled, turbocharged  
Direct injection  
24 Volt starter motor 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.  
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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**Baudouin**



| MODEL      |  | EAB20    | EAB25             | EAB35             | EAB44              |                    |
|------------|--|----------|-------------------|-------------------|--------------------|--------------------|
| OUTPUT     | Standby                                | kVA      | 20                | 25                | 35                 | 44                 |
|            |  | kW       | 16                | 20                | 28                 | 35.2               |
|            | Prime                                  | kVA      | 18                | 23                | 32                 | 40                 |
|            |  | kW       | 15                | 18                | 25                 | 32                 |
| ENGINE     | Engine                                 |          | BAUDOUIN          | BAUDOUIN          | BAUDOUIN           | BAUDOUIN           |
|            | Model                                  |          | 4M06G20/5         | 4M06G25/5         | 4M06G35/5          | 4M06G44/5          |
|            | Configuration                          |          | INLINE            | INLINE            | INLINE             | INLINE             |
|            | No. of Cylinders                       |          | 4                 | 4                 | 4                  | 4                  |
|            | Speed                                  | rpm      | 1500              | 1500              | 1500               | 1500               |
|            | Displacement                           | l        | 2.3               | 2.3               | 2.3                | 2.3                |
|            | Bore x Stroke                          | mm       | 89 x 92           | 89 x 92           | 89 x 92            | 89 x 92            |
|            | Compression Ratio                      |          | 17.5:1            | 17.5:1            | 17.5:1             | 17.5:1             |
|            | Aspiration                             |          | Natural           | Natural           | Turbocharged       | Turbocharged       |
|            | Governor Type                          |          | Electronic        | Electronic        | Electronic         | Electronic         |
|            | Cooling                                |          | Water             | Water             | Water              | Water              |
|            | Coolant Capacity                       | l        | 16                | 16                | 16                 | 16                 |
|            | Lubrication Oil Capacity               | l        | 9.5               | 9.5               | 9.5                | 9.5                |
|            | Fuel Consumption l/h                   | 100%Load | 4.7               | 6.1               | 7.6                | 9.5                |
| 75% Load   |  | 3.6      | 4.5               | 5.7               | 7                  |                    |
| 50%Load    |  | 2.6      | 3.2               | 4                 | 4.7                |                    |
| 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       | 1900 x 900 x 1220 | 1900 x 900 x 1220 | 2300 x 1000 x 1420 | 2300 x 1000 x 1420 |
|            |  | kg       | 801               | 801               | 964                | 998                |
|            | Open Set Dimensions (LxWxH) & Weight   | mm       | 1600 x 900 x 1220 | 1600 x 900 x 1220 | 1900 x 1000 x 1420 | 1900 x 1000 x 1420 |
|            |  | kg       | 647               | 647               | 789                | 823                |
|            | Fuel Tank Capacity                     | l        | 82                | 82                | 101                | 101                |

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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