



Industrial Range

Baudouin Series

Model SB110 Generator set

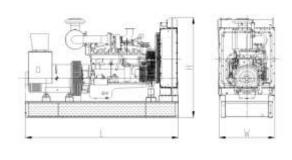


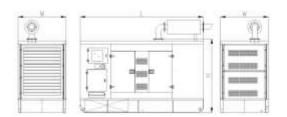


General Performance Data				
Prime Power	100KVA/80KW	Engine	Brand	Baudouin
Stand by Power	110KVA/88KW	Liigiile	Model	4M10G110/5
Frequency/Speed	50Hz/1500rpm	Control module	Deepse	ea 6120
Rated Power Factor(cosφ)	0.8	Rated Current	14	4A
Standard Voltage	230V/400V	Capacity of Breaker	16	0A
Phases	3	Starting Voltage	DC	12V

Fuel consumption			
Rated output Fuel consumption rate			
100%Standby	204 g/KW. h	24.43L/h	
100%Prime	202 g/KW.h	21.25L/h	
75%Prime	200g/KW.h	16.01L/h	
50%Prime	208.1g/KW.h	10.58L/h	
25%Prime	229.6g/KW.h	6.02L/h	

Standards followed	
ISO9001	ISO14001
ISO8528	ISO12100
ISO13849	EN12601
GB12786	GB/T2820
IEC60034	IEC60204
CE	RETIE





Dimensions and Weights			
Туре	Open	Silent	
Length(mm)			
Width(mm)			
Height(mm)			
Weight(kg)			
Base fuel tank volume (L)			



Engine specification

Basic parameter	
Manufacturer	Baudouin
Model	4M10G110/5
No. of cylinder	4
Туре	In-line
Prime Power	90Kw /121HP
Standby Power	100kw /134HP
Induction system	Turbocharged and Aftercooled
Governor	Electronic
Bore x Stroke	105x118mm
Displacement	4.087L
Compression ratio	17.5:1
Oil Capacity(Total)	13L
Coolant Capacity(Engine only)	9.4L
Cranking Motor Voltage	DC12V
Fuel System	
Type Injection system	Mechanical Pump
Fuel supply flow	84 L/h

Air induction system	
Maximum allowable intake air restriction	
with clean filter element	≤30mBar
with dirty filter element	≤60mBar
Air intake temperature rise	≤5°C
Exhaust system	
Max. allowable back pressure	50mBar
Standard exhaust pipe diameter	70mm

Cooling system	
Coolant capacity	
Engine only	9.4L
Total system	23.6 L
With heat exchanger	14.2L
Standard thermostat(modulating) range	76-89 ℃
System designed for ambient temperature up to	50°C
Coolant alarm (shutdown) temperature	105℃

Lubrication system	
Oil Pressure	
Idle speed	≥1 Bar
Rated speed	3-5 Bar
Max. allowable oil temperature	110℃
Offset sump oil capacity: low/high	12 /14L
Total system capacity	13L

Electric system	
Min. recommended battery capacity (24V)	
Starter power	3.8KW
Battery charger current	80A
Battery charger absorbed power	1.12KW
Max. allowable resistance of Starting circuit	0.004ohm
Electrical system voltage (negative to ground)	DC12V
Min. cold start temperature without auxiliary starting device	-15℃

Alternator specification		
Phases	3	
Poles	4	
Power factor(cosφ)	0.8	
Winding connection	Star	
Winding pitch	2/3	
Voltage regulator type	AVR	

Coating	Vacuum impregnation
Insulation class	Н
Protection	IP23
Excitation system	Self-excited
Bearing	Single Bearing
Coupling	Flexible disc



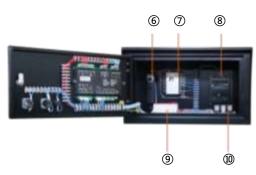
Control system Introduction

Deepsea 6120 Auto start & auto mains failure control panel

Deepsea 6120 is an auto mains failure controller for single generator, it can monitor and protect the generator working all the time. it has a LCD display which clearly shows the status of the engine. this controller include seven inputs and six outputs. This controller can also be programmed using the front panel or by using DSE configuration Suite PC software



- ①Emergency stop button
- ②Power switch
- ③Power indicator
- **⑤LCD** display



- **6** Voltage and frequency trimmer

(7)Governor

Relay

®Charger

Key Features:

- Auto start/stop, load transfer and alarming of generator
- Remote start on or off load
- With hierarchical loading function
- Multiple start/stop cycles can be preset
- 3 phase generator and mains voltage monitoring.
- Generator/load power detection(kW, kVA, kVAr PF)
- Overload protection (kW)
- Load current monitoring and protection
- Engine speed protection
- Engine pre-heat
- Engine start idle & stop idle
- Battery voltage monitoring
- Start under the low battery
- 4 active outputs
- 4 digital inputs and 3 analogue inputs.
- 6 Custom digital input
- 6 outputs(4 configurable on magnetic pick-up,
 6 configurable on Canbus version)
- DSE2130,DSE2157,DSE2548 expansion module can be connected
- Support 0-10V or 4-20mA oil pressure sensor

Main features:

- Multi language display
- Mains failure self starting
- The running time of the engine can be recorded to facilitate the maintenance and repair of the unit
- User-friendly set-up and button layout
- LCD display can display multiple parameters at the same time
- Support EFI engine
- IP65 rating (with optional gasket)
- PC and front panel configuration
- 100 event records
- Data recording and trend analysis

Protection:

- Two sets of protection parameters can be preset
- Normal alarm, electrical trip and shutdown alarm can be set to effectively monitor the engine speed,oil pressure, water temperature and oil level, as well as the frequency, voltage, current and power of the alternator, for complete engine/alternator protection
- Low Oil Pressure
- High water Temperature
- High voltage and low voltage
- Overspeed
- Emergency stop
- Fail to start



Soundproof Canopy Introduction:

Standard Type:

- The arc angle structure makes the appearance beautiful and not easy to bump
- High quality coating powder, chemical surface treatment & 100-120um coating thickness greatly improving the anticorrosion and anti rust level
- Stainless steel hinge & door lock are beautiful and anti-rust
- 2.0mm cold rolled plate used makes the body more solid
- The bottom forklift and loading port design enables easy loading and unloading
- The drainage outlets are all connected to the outside for easy operation

- The sufficient air in & out design ensure long-term and stable operation of the unit
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- High density foam used inside effectively reduces noise
- Ceiling Lighting is equipped for easy operation
- The built-in base fuel tank with fuel filler set on the shell facilitates refueling
- Models above medium power range are designed with top hoisting mechanism to facilitate transportation of the unit.

Imitated container type:

- The shell is made of 3.0mm hot rolled steel plate so as to withstand the lifting capacity of 15-ton without deformation
- The switch cabinet and control panel are respectively set on both sides of the shell for easy maintenance & operation
- The shell looks similar to standard container, and can be loaded into 40HQ container for transportation, which is convenient for shipping
- The lifting eye holes are designed on the top same as the standard container for easy handling
- High density foam used inside effectively reduces noise
- The built-in base fuel tank with fuel filler set on the shell facilitates refueling
- Double emergency stop button set on different surfaces enables quick response to operation requirements

- The shell base is independent from the unit with 3mm thick checkered steel plate floor, which is beautiful & antiskid, and is convenient for overhaul & maintenance of the unit
- The door handle, lock and hinge are all made of stainless steel to avoid rusting
- The air out louver made of the mesh plate with podwer coating and pasted with high-density glass fiber is beautiful and not easy to rust, and can further reduce the noise
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- The sufficient air in & out design ensure long-term and stable operation of the unit
- The drainage outlets are all connected to the outside for easy operation
- Ceiling Lighting is equipped for easy operation

Standard container type:

- Can be shipped on board directly during transportation
- The mesh plate with podwer coating and inner pasted with high-density glass fiber is installed inside the shell, which is beautiful and anti-rust, and can further reduce the noise
- 3mm thick checkered steel plate floor is beautiful & antiskid, and is convenient for overhaul & maintenance of the unit
- Double emergency stop button set on different surfaces enables quick response to operation requirements
- The independent daily fuel tank can be designed to put inside to meet requirements of continuous operation
- The fuel filler is set on the shell to facilitate refueling

- The switch cabinet and control panel are respectively set on both sides of the shell for easy maintenance & operation
- The air in & out louver made of the mesh plate with podwer coating and pasted with high-density glass fiber is beautiful and not easy to rust, and can further reduce the noise
- Isolation net is designed for air inlet, exhaust outlet and muffler outlet to prevent objects from entering the unit
- The sufficient air in & out design ensure long-term and stable operation of the unit
- The drainage outlets are all connected to the outside for easy operation
- Ceiling Lighting is equipped for easy operation













Decomposition diagram introduction of Typical Canopy



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Standard supply scope:



- ① Engine
- ② AC Alternator
- ③ Cooling Radiator
- 4 Auto Start Control Panel
- S Main Ciruit Breaker
- 6 Built in Shock Pad
- High Strength Frame
- 8 Exhaust silencer
- 9 Bellow
- Starting battery

Optional supply scope:

Genset	Engine	Alternator	Control system
 Tool box Base fuel tank External daily fuel tank Trailer	Fuel heaterFuel and water separator	 Temp. detector for winding and bearing PMG Antirust, mildew and salt fog treatment Anti condensation heater 	 ATS Synchronization System Adjustable earth relay
Breaker	Fuel system	Lub-oil system	Cooling system
ABBSchneider	Low fuel level alarmAuto Fuel PumpT Vlave	Lub oil heaterTempsensorOil drain Pump	• Elec.coolant Heater





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