



# **Industrial Range**

**Baudouin Series** 

# **Model SB1120 Generator set**

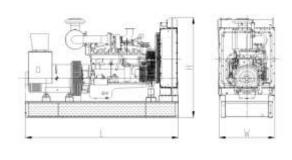


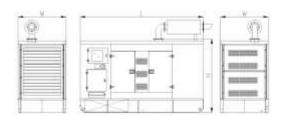


General Performance Data				
Prime Power	1020KVA/816KW	Engine	Brand	Baudouin
Stand by Power	1120KVA/898KW		Model	12M26G1100/5
Frequency/Speed	50Hz/1500rpm	Control module	Deepse	ea 6120
Rated Power Factor(cosφ)	0.8	Rated Current	129	99A
Standard Voltage	230V/400V	Capacity of Breaker	160	00A
Phases	3	Starting Voltage	DC	24V

Fuel consumption			
Rated output	Fuel consumption rate		
100%Standby	196.9g/KW.h	228.1L/h	
100%Prime	195.7g/KW.h	207.1L/h	
75%Prime	195.7g/KW.h	155.3L/h	
50%Prime	201.4g/KW.h	106.6L/h	
25%Prime	220.7g/KW.h	58.4L/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		Air induction system	
Manufacturer	Baudouin	Maximum allowable intake air restriction	
Model	12M26G1100/5	with clean filter element ≤30mB	
No. of cylinder	12	with dirty filter element ≤65mBa	
Туре	At Vee	Air intake temperature rise ≤5°C	
Prime Power	889Kw /1192HP	Exhaust system	
Standby Power	973kw /1305HP	Max. allowable back pressure 75mBar	
Induction system	Turbocharged and Aftercooled	Standard exhaust pipe diameter 200mm	
Governor	Electronic		
Bore x Stroke	150x150mm	Cooling system	
Displacement	31.8L	Coolant capacity	
Compression ratio	15.7:1	Engine only 83L	
Oil Capacity(Total)	114L	Total system 154 L	
Coolant Capacity(Engine only)	83L	With heat exchanger 71L	
Cranking Motor Voltage	DC24V	Standard thermostat(modulating) range 77-87 °C	
Fuel System		System designed for ambient temperature up to 50°C	
Type Injection system	Mechanical Pump	Coolant alarm (shutdown) temperature 103°C	
Fuel supply flow	595 L/h		
Lubrication system		Electric system	
Oil Pressure		Min. recommended battery capacity (24V)	
Idle speed	≥2 Bar	Starter power 10KW	
Rated speed	4-6 Bar	Battery charger current 55A	
Max. allowable oil temperature	105℃	Battery charger absorbed power 1.6KW	
Offset sump oil capacity: low/high	78/109L	Max. allowable resistance of Starting circuit 0.008ohr	
Total system capacity	114L	Electrical system voltage (negative to ground) DC24V	
		Min. cold start temperature without -10°C	
Alternator specification	on		
Phases	3	Coating Vacuum impregnation	
Poles	4	Insulation class H	
Power factor(cosφ)	0.8	Protection IP23	
Winding connection	Star	Excitation system Self-excited	
Winding pitch	2/3	Bearing Single Bearing	
Voltage regulator type	AVR	Coupling Flexible disc	



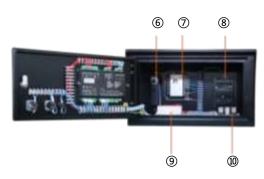
#### **Control system Introduction**

# 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

# (S) (4) (3) (2)

- 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**



## **Standard supply scope:**



- 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
- Bellow
- Starting battery

## **Optional supply scope:**

Genset	Engine	Alternator	Control system
<ul> <li>Tool box</li> <li>Base fuel tank</li> <li>External daily fuel tank</li> <li>Trailer</li> </ul>	<ul><li>Fuel heater</li><li>Fuel and water separator</li></ul>	<ul> <li>Temp. detector for winding and bearing</li> <li>PMG</li> <li>Antirust, mildew and salt fog treatment</li> <li>Anti condensation heater</li> </ul>	<ul> <li>ATS</li> <li>Synchronization System</li> <li>Adjustable earth relay</li> </ul>
Breaker	Fuel system	Lub-oil system	Cooling system
<ul><li>ABB</li><li>Schneider</li></ul>	<ul><li>Low fuel level alarm</li><li>Auto Fuel Pump</li><li>T Vlave</li></ul>	<ul><li>Lub oil heater</li><li>Tempsensor</li><li>Oil drain Pump</li></ul>	• Elec.coolant Heater





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