

# **B320S**

# Diesel Generator Set, Powered by Baudouin

380

486

320 / 256 350 / 280



## Main technical data

kVA/kW
kVA/kW
Α
Hz
RPM
Р
cosφ

Structure	
Model	
Tank capacity	L
Dimensions	mm
Dry weight	kg
Noise Level	dBA@7m

			B320S		
L			1500		
mm		•	4242 x 1463 x 24	82	
kg			4140		
dBA@7m			75.7		
	25%	50%	75%	100%	110%
L/h	18.9	35.4	52.3	70.5	78.4
	kg dBA@7m	kg dBA@7m	kg dBA@7m 25% 50%	L 1500 mm 4242 x 1463 x 24 kg 4140 dBA@7m 75.7	L 1500 mm 4242 x 1463 x 2482 kg 4140 dBA@7m 75.7

400

462

320 / 256

350 / 280

415

445

Soundproof type

320 / 256

350 / 280

440

420

320 / 256

350 / 280



# **Main Specification**

#### Advantage

- Low fuel consumption
- Optimized system
- High reliability
- High availability
- Long maintenance cycle

#### Design standards

- Conformite Europeene CE)
- ISO8528-5:2005
- GB/T2820.5-2009

## Environmental operating conditions

- Installation place: indoor (well ventilated)
- Ambient temperature: -25°C to 50°C (the coolant heater is needed when the temperature is below 5°C)
- Humidity: Less than 90%
- Altitude: Below one thousand (1000) meters.

## Performance guarantee

- Product design, manufacturing and performance integrity verified by standards
- Generator set passed transient response test according to ISO8528-5
- Both engine and alternator are prototype and factory tested

## Service support

- Provide global product service support

## Factory inspection

- Protection devices working test
- Starting ability in normal temperature
- 50% rated power load moment capability
- Voltage deviation and speed variation: 0, 25%, 50%, 75%, 100%, 110%









# **Power System**

# **Engine**

Manufacturer	Baudouin	Intake system	Turbocharged
Model	6M16G350/5	Intake resistance: kPa	≦7.0
Cylinders and arrangement	6L	Back power: kPa	≦11
Bore: mm	126	Oil capacity: L	30
Stroke: mm	130	Coolant capacity: L	44
Displacement: L	9.7	Battery voltage: V	24
Compression ratio	17	Dimensions: mm	1982×1082×1310
Rotate speed: RPM	1500	Dry weight: kg	1021
Prime power: kWm	291		
Standby power: kWm	320		
Rotate speed governor	EFC		

Direct

#### **Alternator**

Type of injection

Manufacturer	PowerLink	Insulation class	Н
Model	PL4MP	Temperature rising class	Н
Exciter	PMG	Drip proof	IP23
AVR model	MX321	Overspeed: RPM	2250
Windings	100% copper	Voltage regulation	±0.5%
Winding pitch	2/3	Telephone harmonic factor THF	<2%
Number of poles	4	Telephone interference factor TIF	<50
Terminals	12		

# **Control System**

Manufacturer POWERLINK Model PLC7420

# General functions

Automatic start/stop control
Manual/remote start control
Automatically start when mains is abnormal (AMF)

- Real time monitoring and display of multiple parameters

RS232, RS485 port and ethernet can be used

CAN and Modbus communication

- Provide complete control solutions

# Monitoring and protection

Oil pressure	Overload
Water temperature	Overcurrent
Rotate speed	Overvoltage
Start	Undervoltage
Running time	Overfrequency
Battery voltage	Underfrequency



# **Product Configuration**

# **Standard Configuration**

•					
Engine	Alternator	Control switchgear	Canopy (soundproof)	Base frame	
Electrical start motor	Insulation class H	PLC control system	Electrogalvanized sheet	Steel base frame	
Battery system	Temp. rising class H	GCB, 3P	Anti-corrosion coating	Engine bracket	
Speed control system	Drip proof class IP23	Breaker cabinet	Access door	Alternator bracket	
Turbocharger	AVR	Communi. connector	Stainless steel hinge	Radiator bracket	
Lockable isolator switch	1	ATS connector	Sound absorbing cotton	Vibration isolators	
Battery charger		Mains floating charger			
Fuel evetem	Lubrication quatern	Cooling avotem	Intoko/ovhouet evetem	Degumento	
Fuel system	Lubrication system	Cooling system	Intake/exhaust system	Documents	
Base frame fuel tank	Oil pressure sensor	50°C radiator	Air filter	Installation and operation manual	
Fuel level sensor	Oil temp. sensor	Coolant level sensor	Muffler	operation manual	
Flexible pipe	Oil filter	Jacket water pipe	Exhaust bellows	Test report	
• •	Manual drain pump	Intercooling pipe		Wiring diagram	
Fuel filter	Oil drain ball valve			Exhaust pipe and flange	Warranty manual
Fuel inlet	Oii diaiii baii vaive		High temperature	•	
				Engine manual	
			protective sleeve	Standard package	
				Clairadia paolago	

## **Optional Configuration**

Engine	Alternator	Control system	Fuel system	Lubrication system
Jacket water preheater	PMG	GCB, 4P	Fuel-water separator Fuel three-way valve Daily fuel tank	Electric drain pump
Oil preheater	Anti-condensation	ATS cabinet		
	heater	Paralleling control		
	Treatments against humidity & corrosion			

### **Power Class Definition**

- Prime Power (PRP): the genset runs continuously with variable load, the number of operating hours is not limited, and
   1h overload 10% operation is allowed per 12h, and the average load factor is less than 80% per 24h.
- Standby Power (ESP): operating time does not exceed 500h per year, continuous operating time does not exceed 300h, the average load factor is less than 80% per 24h. Overload operation is not allowed.

#### **Product Statement**

- The data of specifications is based on the following standard environmental conditions test
  - Ambient temperature 25°C
  - Altitude 100m
  - Relative temperature 30%
- Dimensions, weight and other parameters are for reference only, please refer to the final design drawing.



Data is subject to change without prior notice as new products are always developed.

Please contact POWERLINK or local agent with any doubts or for more information.