

B650S

Diesel Generator Set, Powered by Baudouin



Main technical data

Rated voltage	
Prime power	kVA/kW
Standby power	kVA/kW
Ampere	Α
Frequency	Hz
Rotate speed	RPM
Phase	Р
Power factor	cosφ

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

L/h

Fuel consumption

380	400	415	440		
650 / 520	650 / 520	650 / 520	650 / 520		
715 / 572	715 / 572	715 / 572	715 / 572		
988	938	904	853		
50					
1500					
3					
0.8					

Soundproof type				
B650S				
1600				
4701 x 1749 x 2617				
6720				
77.8				
50%	75%	100%	110%	
67.1	100	136.3	153.3	
	50%	B650S 1600 4701 x 1749 x 26 6720 77.8	B650S 1600 4701 x 1749 x 2617 6720 77.8	



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	6M33G715/5	Intake resistance: kPa	<u>≤</u> 6.5
Cylinders and arrangement	6L	Back power: kPa	≦ 7.5
Bore: mm	150	Oil capacity: L	61
Stroke: mm	185	Coolant capacity: L	159
Displacement: L	19.6	Battery voltage: V	24
Compression ratio	15	Dimensions: mm	2798×1680×1954
Rotate speed: RPM	1500	Dry weight: kg	2452
Prime power: kWm	575		
Standby power: kWm	633		
Rotate speed governor	EFC		
Type of injection	Direct		

Alternator

Manufacturer	PowerLink	Insulation class	Н
Model	PL5LP	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

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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 system	Lubrication system	Cooling system	Intake/exhaust system	Documents	
•	•		•	Installation and	
Base frame fuel tank	Oil pressure sensor	50°C radiator	Air filter	operation manual	
Fuel level sensor	Oil temp. sensor	Coolant level sensor	Muffler	•	
Flexible pipe	Oil filter	Jacket water pipe	Exhaust bellows	Test report	
Fuel filter	Manual drain pump	Intercooling pipe		Exhaust pipe and flange	Wiring diagram
Fuel inlet	Oil drain ball valve			Warranty manual	
i dei iillet			High temperature protective sleeve	Engine manual	
				Standard package	
				Standard package	

Optional Configuration

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