

# B2250E3C

## Diesel Generator Set, Powered by Baudouin



## Main technical data

Rated voltage		380	400	415	440
Prime power	kVA/kW	2250 / 1800	2250 / 180	0 2250 / 18	00 2250 / 1800
Standby power	kVA/kW	2500 / 2000	2500 / 200	0 2500 / 20	00 2500 / 2000
Ampere	Α	3419	3248	3130	2952
Frequency	Hz		50		
Rotate speed	RPM		1500		
Phase	Р		3		
Power factor	cosφ		0.8		
Structure		Containerized type			
Model			B2250E3C		
Tank capacity	L		2400		
Dimensions	mm		12192 ×2438 ×2896		
Dry weight	kg		22370		
Noise Level	dBA@7m		86.8		
Load		25%	50%	75%	100% 110%
Fuel consumption	L/h	150.8	285.1	428.1	555.0 610.2



## **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
Model	20M33G4D3/5
Cylinders and arrangement	20V
Bore: mm	150
Stroke: mm	185
Displacement: L	65.4
Compression ratio	15
Rotate speed: RPM	1500
Prime power: kWm	2010
Standby power: kWm	2210
Rotate speed governor	ECU
Type of injection	Direct

Intake system	Turbocharged
Intake resistance: kPa	≦7.5
Back power: kPa	≦7.5
Oil capacity: L	235
Coolant capacity: L	410
Battery voltage: V	24
Dimensions: mm	4611×2756×2870
Dry weight: kg	8275

Insulation class	Н
Temperature rising class	Н
Drip proof	IP23
Overspeed: RPM	2250
Voltage regulation	±0.5%
Telephone harmonic factor THF	<2%
Telephone interference factor TIF	<50

#### Alternator

Powerlink
PL7F
PMG
MX321
100% copper
2/3
4
12

## **Control System**

Manufacturer	POWERLINK
Model	PLC500

#### **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**

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Engine	Alternator	Control switchgear	Canopy (Container)	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		ATS connector	Sound absorbing cotton	Vibration isolators
Battery charger		Mains floating charger		
Fuel system	Lubrication system	Cooling system	Intake/exhaust system	Documents
Base frame fuel tank	Oil pressure sensor	50°C radiator	Air filter	Installation and
Fuel level sensor	Oil temp. sensor	Coolant level sensor	Muffler	operation manual
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
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			protective sleeve	Standard package
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#### **Optional Configuration**

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

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