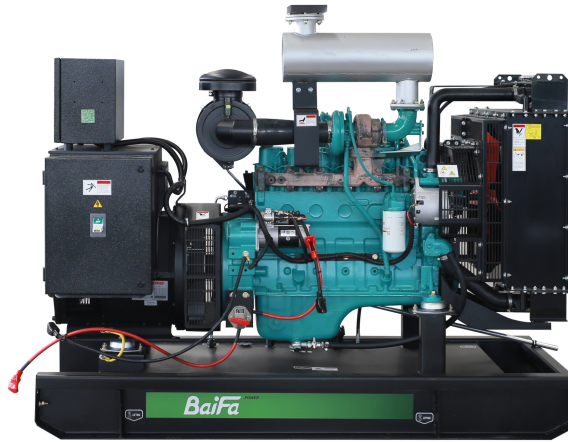


MODEL: BF-C110
400V | 1500rpm | 50Hz


ESP Standby Power	109 kVA	PRP Prime Power	100 kVA
ENGINE	DCEC Cummins	ALTERNATOR	STAMFORD
	6BT5.9-G2		UC1274C1

GENERAL FEATURES

Engine: DCEC Cummins 6BT5.9-G2

Alternator: single bearing, IP23, insulation class H

50°C radiator, fans are driven by belt, with safety guard

Dry type air filter, fuel filter & oil filter

Vibration damper

Standard control panel

24V charging alternator

Exhaust bellows, elbows, flange & muffler

Lead-acid batteries, rack and cables

User manual

MODEL: BF-C110

400V | 1500rpm | 50Hz

GENERATOR RATINGS

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	142	87/109	80/100
415/240	50	3	0.8	151	87/109	80/100
400/230	50	3	0.8	157	87/109	80/100
380/220	50	3	0.8	165	87/109	80/100

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820 (eqv ISO 8528) ; A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

SALES PROMISES

Baifa Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Warranty is according to our standard conditions: 15 months from the date BAIFA sold to the first buyer or one year after installation or 1000 running hours (accumulated), whichever comes first.

Service and parts are available from Baifa Power or distributors in your location.

Comprehensive Solutions For

POWER GENERATION

**MODEL: BF-C110****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	DCEC Cummins 6BT5.9-G2
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Air intake system	Turbocharged
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Fuel system	A type fuel pump
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Cylinder arrangement	6 in line
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Displacement	5.9L
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Bore and stroke	102*120 (mm)
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Compression ratio	17.3:1
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Rated speed	1500rpm
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Max. Standby power at rated speed	92KW/123HP
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Governor type	Electronic
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Exhaust System

Exhaust gas flow	16.8 m ³ /min
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Exhaust temperature	565 °C
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Max back pressure	10kPa
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Air Intake System

Max intake restriction	6.1kPa
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Combustion air flow	6.5 m ³ /min
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Air flow required for radiator	158 m ³ /min
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**MODEL: BF-C110****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	214 g/kWh	22.8 L/h
Fuel consumption @ 75% (Prime Power) Load	216 g/kWh	17.2 L/h
Fuel consumption @ 50% (Prime Power) Load	217 g/kWh	11.6 L/h

Oil System

Total oil capacity	16.4L
Oil consumption	≤4g/kwh
Oil sump capacity	12.3~14.2L

Cooling System

Coolant capacity	27L
Max water temperature	104℃

**MODEL: BF-C110****400V | 1500rpm | 50Hz**

ALTERNATOR SPECIFICATION

Industrial alternators meet the requirements of the relevant parts of the BS5000, VDE 0530, NEMA MG1-22, IEC34, CSA 22.2-100 and AS1359.

Alternator Data

Number of Phase	3
Connecting Type	3 Phase and 4 Wires, Y type connecting
Number of Bearing	1
Power Factor	0.8
Protection Class	IP23
Altitude	≤1000m
Exciter Type	Brushless exciting
Insulation Class/Temperature Rise	H/H
Telephone Influence Factor (TIF)	<50
THF	<2%
Alternator Capacity	100kVA
Alternator Efficiency	90.3%

**MODEL: BF-C110****400V | 1500rpm | 50Hz****GENERATING SET DATA**

Related range of voltage setting	$\geq \pm 5\%$
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Steady-state voltage deviation	$\leq \pm 1\%$
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Transient voltage deviation (100 % sudden power decrease)	$\leq +25\%$
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Transient voltage deviation (sudden power increase)	$\leq -20\%$
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Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
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Voltage recovery time (sudden power increase)	$\leq 6S$
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Related range of frequency setting	0-5% adjustable
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Steady-state frequency band	$\leq 1.5\%$
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Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
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Transient frequency deviation (sudden power increase)	$\leq -10\%$
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Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
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Frequency recovery time (sudden power increase)	$\leq 5S$
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STANDARD FEATURES

Standard auto control system

Exhaust system (including until muffler)

Documents

Oil drain valve

Starting batteries (maintenance-free & watering-free) with connective wires

Special tools

Base fuel tank

MCCB

MODEL: BF-C110**400V | 1500rpm | 50Hz****OPTIONS**

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

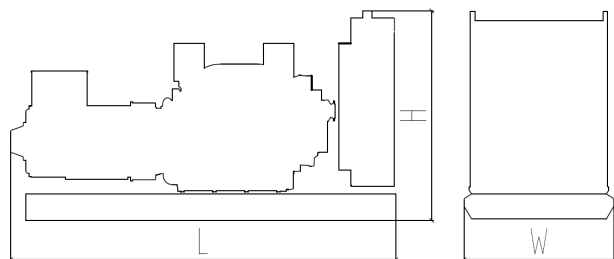
Paralleling system

Spare parts

Trailer type

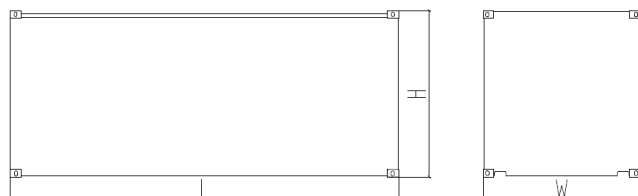
Switch box

Automatic transfer switch

DIMENSIONS & WEIGHT**Standard Configuration (open type with base fuel tank)**

Overall Dimensions: 2200×900×1700 mm

Weight: 1310 kg

**Soundproof Type**

Overall Dimensions: 2810×1140×1830 mm

Weight: 1800 kg

*Specifications are subject to change without notice.***BAIFA POWER (WUXI) LTD.****WEBSITE: WWW.BAIFAPOWER.COM****EMAIL: MARKETING@BAIFAPOWER.COM****TEL: +86-510-85342633**

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POWER GENERATION