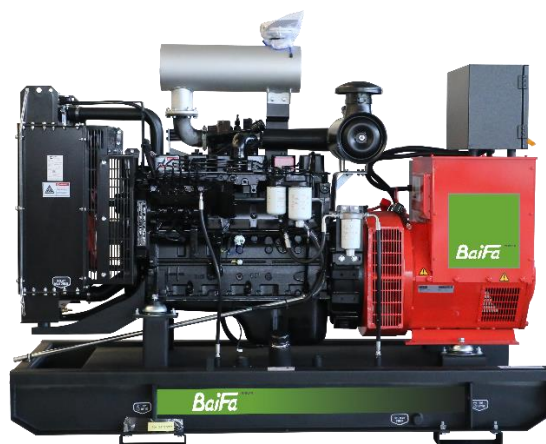


MODEL: BF-C110-60

440V | 1800rpm | 60Hz



ESP	132kVA	PRP	120kVA
ENGINE	DCEC Cummins	ALTERNATOR	STAMFORD
	6BT5.9-G2		UCI274D1

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



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GENERATOR RATINGS

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	159	106kW/132kVA	96kW/120kVA
460/266	60	3	0.8	166	106kW/132kVA	96kW/120kVA
440/254	60	3	0.8	173	106kW/132kVA	96kW/120kVA
416/240	60	3	0.8	183	106kW/132kVA	96kW/120kVA

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.

MODEL: BF-C110-60

440V | 1800rpm | 60Hz

ENGINE SPECIFICATION

Manufacturer / Model DCEC Cummins 6BT5.9-G2

Air intake system Turbocharged

Fuel system PB type fuel pump

Cylinder arrangement 6 in line

Displacement 5.9L

Bore and stroke 102×120 mm

Compression ratio 17.3

Rated speed 1800rpm

Max. Standby power at rated speed 127kW

Governor type Electronic

Exhaust System

Exhaust gas flow 23.7 m³/min

Exhaust temperature 580°C

Max back pressure 10kPa

Air Intake System

Max intake restriction 6kPa

Combustion air flow 8.2 m³/min

Air flow required for radiator 204 m³/min



MODEL: BF-C110-60

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	213g/kWh	27.5L/h
Fuel consumption @ 75% (Prime Power) Load	212g/kWh	20.6L/h
Fuel consumption @ 50% (Prime Power) Load	224g/kWh	14.8L/h

Oil System

Total oil capacity	16.4L
Oil sump capacity	12.3~14.2L

Cooling System

Coolant capacity	23L
Max water temperature	104°C



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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	137.5kVA
Alternator Efficiency	90.8%



MODEL: BF-C110-60

440V | 1800rpm | 60Hz

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)	$\leq -10\%$
---	--------------

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
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Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB
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Base fuel tank

MODEL: BF-C110-60

440V | 1800rpm | 60Hz

OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

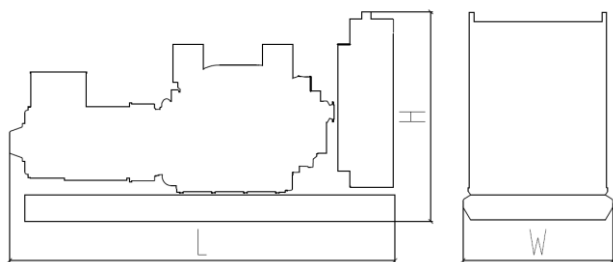
Spare parts

Trailer type

Switch box

Automatic transfer switch

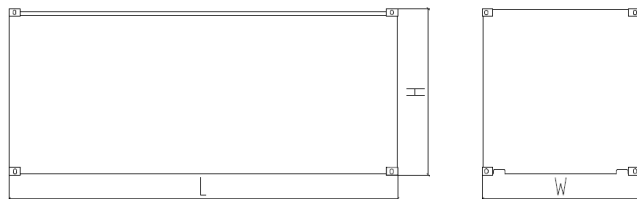
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 2200×900×1700 mm

Weight: 1330 kg



Soundproof Type

Overall Dimensions: 2810×1140×1830 mm

Weight: 1820 kg

Specifications are subject to change without notice.

BAIFA POWER (WUXI) LTD.

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POWER GENERATION