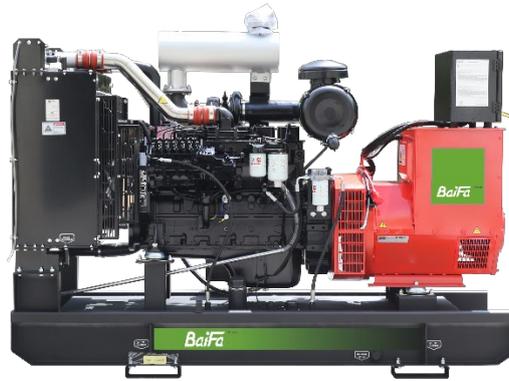


**MODEL: BF-C170**

**400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>170 kVA</b>	<b>PRP</b> Prime Power	<b>156 kVA</b>
<b>ENGINE</b>	<b>DCEC Cummins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>6BTAA5.9-G12</b>		<b>UCI274F1</b>

**GENERAL FEATURES**

Engine: DCEC Cummins 6BTAA5.9-G12

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-C170**

**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	223	136/170	125/156
415/240	50	3	0.8	237	136/170	125/156
400/230	50	3	0.8	245	136/170	125/156
380/220	50	3	0.8	258	136/170	125/156

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-C170****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	DCEC Cummins 6BTAA5.9-G12
Air intake system	Turbo, Air/Air Cooling
Fuel system	P7100 fuel pump
Cylinder arrangement	6 in line
Displacement	5.9L
Bore and stroke	102*120 (mm)
Compression ratio	17.3:1
Rated speed	1500rpm
Max. Standby power at rated speed	155KW/207HP
Governor type	Electronic

**Exhaust System**

Exhaust gas flow	21.42 m <sup>3</sup> /min
Exhaust temperature	507 °C
Max back pressure	10kPa

**Air Intake System**

Max intake restriction	6.2kPa
Combustion air flow	9 m <sup>3</sup> /min
Air flow required for radiator	270 m <sup>3</sup> /min

**MODEL: BF-C170**

**400V | 1500rpm | 50Hz**

**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	203 g/kWh	33L/h
Fuel consumption @ 75% (Prime Power) Load	202 g/kWh	25L/h
Fuel consumption @ 50% (Prime Power) Load	207 g/kWh	18L/h

**Oil System**

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

**Cooling System**

Coolant capacity	37L
Max water temperature	104°C

**MODEL: BF-C170****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	160kVA
Alternator Efficiency	92.3%

**MODEL: BF-C170****400V | 1500rpm | 50Hz****GENERATING SET DATA**

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

**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	

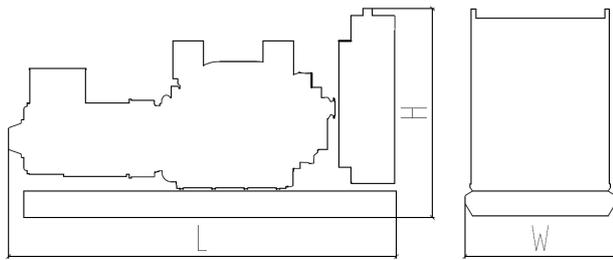
**MODEL: BF-C170**

**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		

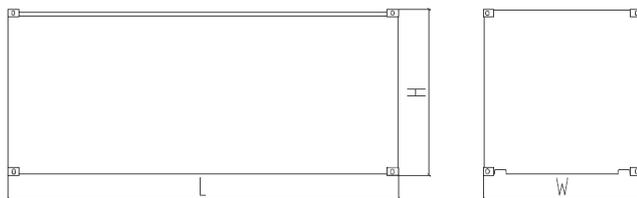
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type with base fuel tank)**

Overall Dimensions: 2450×900×1700 mm

Weight: 1360 kg



**Soundproof Type**

Overall Dimensions: 3230×1170×1800 mm

Weight: 2140 kg

*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**

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Comprehensive Solutions For  
**POWER GENERATION**

