

MODEL: BF-C170-60

440V | 1800rpm | 60Hz



ESP Standby Power	180kVA	PRP Prime Power	168kVA
ENGINE	DCEC Cummins	ALTERNATOR	STAMFORD
	6BTAA5.9-G12		UCI274E1

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

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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	217	144kW/180kVA	134kW/168kVA
460/266	60	3	0.8	226	144kW/180kVA	134kW/168kVA
440/254	60	3	0.8	236	144kW/180kVA	134kW/168kVA
416/240	60	3	0.8	250	144kW/180kVA	134kW/168kVA

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.

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ENGINE SPECIFICATION

Manufacturer / Model	DCEC Cummins 6BTAA5.9-G12
Air intake system	Turbocharged, 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
Rated speed	1800rpm
Max. Standby power at rated speed	165kW
Governor type	Electronic

Exhaust System

Exhaust gas flow	26.3 m ³ /min
Exhaust temperature	458°C
Max back pressure	10kPa

Air Intake System

Max intake restriction	6.2kPa
Combustion air flow	11.8 m ³ /min
Air flow required for radiator	348 m ³ /min

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	208g/kWh	37.9L/h
Fuel consumption @ 75% (Prime Power) Load	205g/kWh	28.3L/h
Fuel consumption @ 50% (Prime Power) Load	214g/kWh	20.4L/h

Oil System

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

Cooling System

Coolant capacity	37L
Max water temperature	104°C

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ALTERNATOR SPECIFICATION

Industrial alternators meet the requirements of the relevant parts of the BS 5000, 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	167.5kVA
Alternator Efficiency	91.7%

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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	MCCB

Base fuel tank

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OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

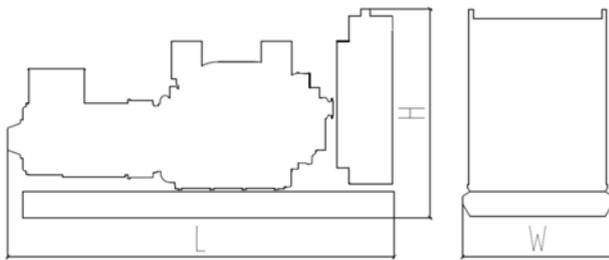
Spare parts

Trailer type

Switch box

Automatic transfer switch

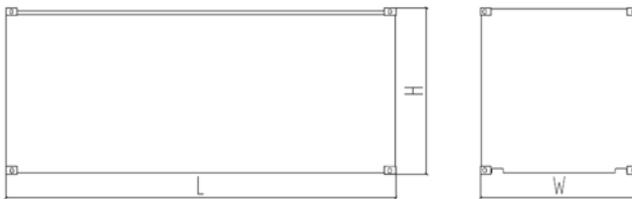
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 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.

ENERGYBAK

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