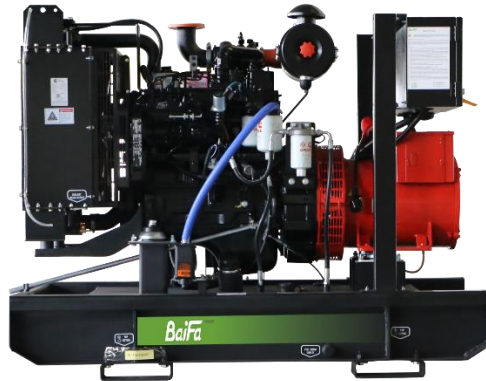


MODEL: BF-C30-60

440V | 1800rpm | 60Hz



ESP Standby Power	33kVA	PRP Prime Power	30kVA
	DCEC Cummins 4B3.9-G2		STAMFORD SOL2-P1
ENGINE		ALTERNATOR	

## GENERAL FEATURES

Engine: DCEC Cummins 4B3.9-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	40	26.4kW/33kVA	24kW/30kVA
460/266	60	3	0.8	41	26.4kW/33kVA	24kW/30kVA
440/254	60	3	0.8	43	26.4kW/33kVA	24kW/30kVA
416/240	60	3	0.8	46	26.4kW/33kVA	24kW/30kVA

**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-C30-60

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## ENGINE SPECIFICATION

Manufacturer / Model DCEC Cummins 4B3.9-G2

Air intake system Naturally Aspirated

Fuel system A model fuel pump

Cylinder arrangement 4 in line

Displacement 3.9L

Bore and stroke 102×120 mm

Compression ratio 18

Rated speed 1800rpm

Max. Standby power at rated speed 33kW

Governor type Electronic

## Exhaust System

Exhaust gas flow 4.9 m<sup>3</sup>/min

Exhaust temperature 352°C

Max back pressure 10kPa

## Air Intake System

Max intake restriction 6.2kPa

Combustion air flow 2.6 m<sup>3</sup>/min

Air flow required for radiator 72 m<sup>3</sup>/min



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#### Fuel System

Fuel consumption @ 100% (Prime Power) Load	238g/kWh	8.3L/h
Fuel consumption @ 75% (Prime Power) Load	251g/kWh	6.6L/h
Fuel consumption @ 50% (Prime Power) Load	280g/kWh	5.1L/h

#### Oil System

Total oil capacity	11L
Oil sump capacity	8.5~9.5L

#### Cooling System

Coolant capacity	16L
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	33.6kVA
Alternator Efficiency	87.2%

MODEL: BF-C30-60

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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

MODEL: BF-C30-60

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## OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

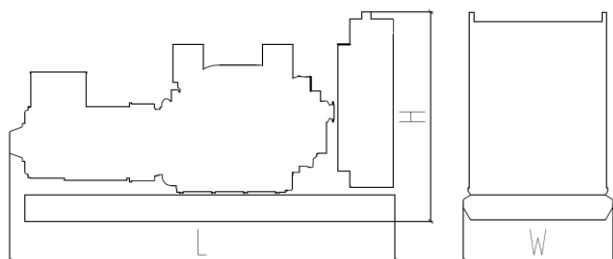
Spare parts

Trailer type

Switch box

Automatic transfer switch

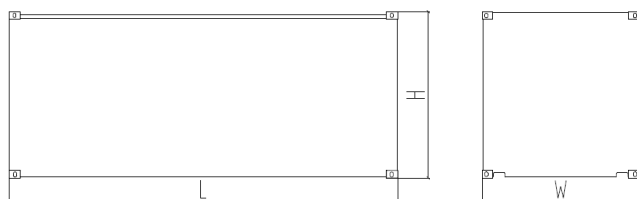
## DIMENSIONS & WEIGHT



### Standard Configuration (open type)

Overall Dimensions: 1750×770×1370 mm

Weight: 730 kg



### Soundproof Type

Overall Dimensions: 2290×1060×1680 mm

Weight: 1250 kg

Specifications are subject to change without notice.

BAIFA POWER (WUXI) LTD.

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