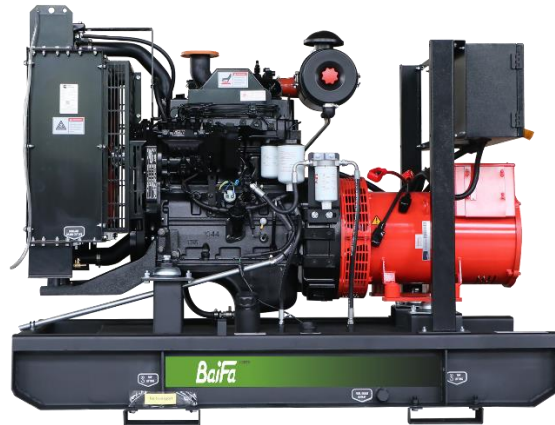


MODEL: BF-C90-60

440V | 1800rpm | 60Hz



ESP Standby Power	100kVA	PRP Prime Power	90kVA
	DCEC Cummins 4BTA3.9-G11		STAMFORD UCI224G1
ENGINE		ALTERNATOR	

GENERAL FEATURES

Engine: DCEC Cummins 4BTA3.9-G11

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	120	80kW/100kVA	72kW/90kVA
460/266	60	3	0.8	126	80kW/100kVA	72kW/90kVA
440/254	60	3	0.8	131	80kW/100kVA	72kW/90kVA
416/240	60	3	0.8	139	80kW/100kVA	72kW/90kVA

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-C90-60

440V | 1800rpm | 60Hz

ENGINE SPECIFICATION

Manufacturer / Model	DCEC Cummins 4BTA3.9-G11
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Air intake system	Turbocharged, Water/Air Cooling
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Fuel system	PB type fuel pump
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Cylinder arrangement	4 in line
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Displacement	3.9L
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Bore and stroke	102×120 mm
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Compression ratio	17.3
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Rated speed	1800rpm
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Max. Standby power at rated speed	90kW
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Governor type	Electronic
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Exhaust System

Exhaust gas flow	12.6 m ³ /min
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Exhaust temperature	405°C
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Max back pressure	10kPa
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Air Intake System

Max intake restriction	6.2kPa
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Combustion air flow	6.1 m ³ /min
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Air flow required for radiator	186 m ³ /min
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Fuel System

Fuel consumption @ 100% (Prime Power) Load	207g/kWh	20.3L/h
Fuel consumption @ 75% (Prime Power) Load	210g/kWh	15.6L/h
Fuel consumption @ 50% (Prime Power) Load	223g/kWh	11.3L/h

Oil System

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

Cooling System

Coolant capacity	22L
Max water temperature	100°C





MODEL: BF-C90-60

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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	97.5kVA
Alternator Efficiency	90.8%



MODEL: BF-C90-60

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)	$\leq -10\%$
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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
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Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB
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Base fuel tank

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OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

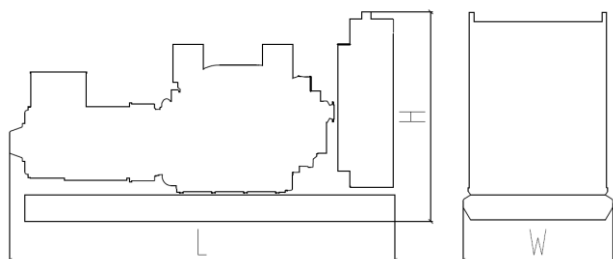
Spare parts

Trailer type

Switch box

Automatic transfer switch

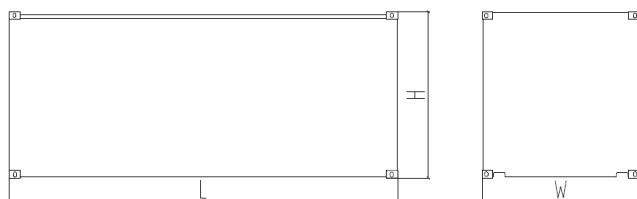
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 1970×770×1370 mm

Weight: 1080 kg



Soundproof Type

Overall Dimensions: 2600×1060×1680 mm

Weight: 1600 kg

Specifications are subject to change without notice.

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POWER GENERATION