

MODEL: BF-C40-60

440V | 1800rpm | 60Hz



ESP Standby Power	50kVA	PRP Prime Power	45kVA
ENGINE	DCEC Cummins	ALTERNATOR	STAMFORD
	4BT3.9-G2		S1L2-N1

GENERAL FEATURES

Engine: DCEC Cummins 4BT3.9-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	60	40kW/50kVA	36kW/45kVA
460/266	60	3	0.8	63	40kW/50kVA	36kW/45kVA
440/254	60	3	0.8	66	40kW/50kVA	36kW/45kVA
416/240	60	3	0.8	69	40kW/50kVA	36kW/45kVA

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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Manufacturer / Model	DCEC Cummins 4BT3.9-G2
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Air intake system	Turbocharged,
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Fuel system	A 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	18
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Rated speed	1800rpm
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Max. Standby power at rated speed	44kW
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Governor type	Electronic
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Exhaust System

Exhaust gas flow	6.4 m ³ /min
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Exhaust temperature	373°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	3.3 m ³ /min
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Air flow required for radiator	120 m ³ /min
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Comprehensive Solutions For

POWER GENERATION



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Fuel System

Fuel consumption @ 100% (Prime Power) Load	221g/kWh	10.9L/h
Fuel consumption @ 75% (Prime Power) Load	230g/kWh	8.6L/h
Fuel consumption @ 50% (Prime Power) Load	255g/kWh	6.6L/h

Oil System

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

Cooling System

Coolant capacity	19L
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	50.4kVA
Alternator Efficiency	90.0%

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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		

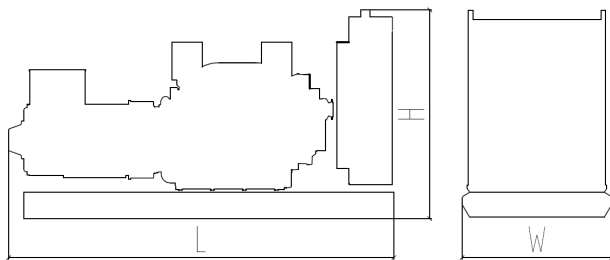
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OPTIONS

Daily fuel tank	Rainproof type	Remote control panel
Alternator heater	Soundproof type	Paralleling system
Spare parts	Trailer type	Switch box
Automatic transfer switch		

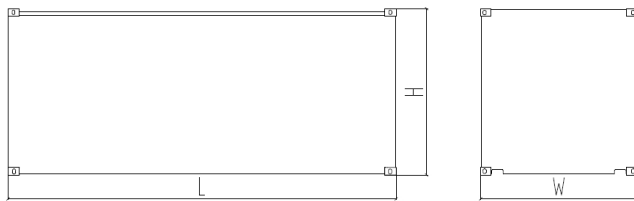
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 1750×770×1370 mm

Weight: 900 kg



Soundproof Type

Overall Dimensions: 2290×1060×1680 mm

Weight: 1350 kg

Specifications are subject to change without notice.

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