

MODEL: BF-C70Q

400V | 1500rpm | 50Hz



ESP Standby Power	70 kVA	PRP Prime Power	62.5 kVA
ENGINE	DCEC Cummins	ALTERNATOR	STAMFORD
	QSB3.9-G2		S1L2-Y1

GENERAL FEATURES

Engine: DCEC Cummins QSB3.9-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)
440/254	50	3	0.8	92	56/70	50/62.5
415/240	50	3	0.8	97	56/70	50/62.5
400/230	50	3	0.8	101	56/70	50/62.5
380/220	50	3	0.8	106	56/70	50/62.5

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	Cummins QSB3.9-G2
Air intake system	Turbocharged
Fuel system	Common rail
Cylinder arrangement	4 in line
Displacement	3.9L
Bore and stroke	102×120 mm
Compression ratio	17.3
Rated speed	1500rpm
Max. Standby power at rated speed	70kW/94hp
Governor type	Electronic

Exhaust System

Exhaust gas flow	11.3 m ³ /min
Exhaust temperature	465 °C
Max back pressure	10kPa

Air Intake System

Max intake restriction	6.2kPa
Combustion air flow	5.3 m ³ /min
Air flow required for radiator	138 m ³ /min

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	230 g/kWh	15.6 L/h
Fuel consumption @ 75% (Prime Power) Load	250 g/kWh	12.6 L/h
Fuel consumption @ 50% (Prime Power) Load	255 g/kWh	8.7 L/h

Oil System

Total oil capacity	10.9L
Oil consumption	≤4g/kwh
Oil sump capacity	7.6~9.5L

Cooling System

Coolant capacity	27L
Max water temperature	104°C

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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	62.5kVA
Alternator Efficiency	89.9%

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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)	$\leq +20\%$
Transient voltage deviation (sudden power increase)	$\leq -15\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
Voltage recovery time (sudden power increase)	$\leq 4S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 0.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +10\%$
Transient frequency deviation (sudden power increase)	$\leq -7\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 3S$
Frequency recovery time (sudden power increase)	$\leq 3S$

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	

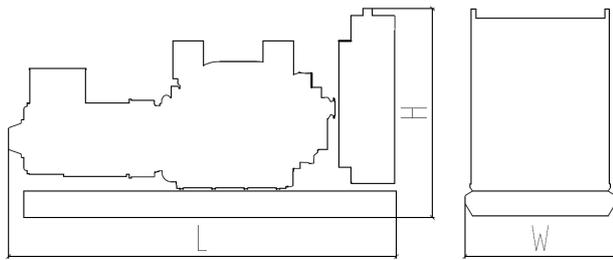
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OPTIONS

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

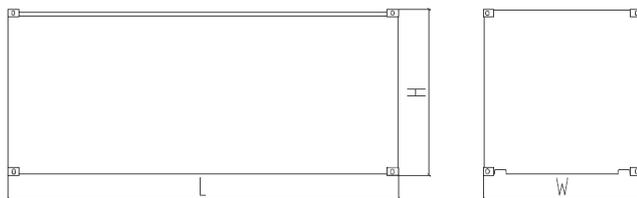
DIMENSIONS & WEIGHT



Standard Configuration (open type with base fuel tank)

Overall Dimensions: 1920×770×1370 mm

Weight: 900 kg



Soundproof Type

Overall Dimensions: 2440×1060×1680 mm

Weight: 1370 kg

Specifications are subject to change without notice.

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