

MODEL: BF-C500DQ

400V | 1500rpm | 50Hz



ESP Standby Power	500 kVA	PRP Prime Power	450 kVA
ENGINE	DCEC Cummins	ALTERNATOR	STAMFORD
	QSZ13-G3		S4L1D-G41

GENERAL FEATURES

Engine: DCEC Cummins QSZ13-G3

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	656	400/500	360/450
415/240	50	3	0.8	696	400/500	360/450
400/230	50	3	0.8	722	400/500	360/450
380/220	50	3	0.8	760	400/500	360/450

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 QSZ13-G3
Air intake system	Turbo, Air/Air cooling
Fuel system	Direct injection
Cylinder arrangement	6 in line
Displacement	13L
Bore and stroke	130*163 (mm)
Compression ratio	17.0:1
Rated speed	1500rpm
Max. Standby power at rated speed	470KW/629HP
Governor type	HPCR

Exhaust System

Exhaust gas flow	2238kg/h
Exhaust temperature	547 °C
Max back pressure	13kpa

Air Intake System

Max intake restriction	6.2kPa
Combustion air flow	30.3 m ³ /min
Air flow required for radiator	522 m ³ /min

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	193 g/kWh	91L/h
Fuel consumption @ 75% (Prime Power) Load	189 g/kWh	67L/h
Fuel consumption @ 50% (Prime Power) Load	187 g/kWh	45L/h

Oil System

Total oil capacity	45.42L
Oil consumption	≤4g/kwh
Oil sump capacity	45.42L

Cooling System

Coolant capacity	73L
Max water temperature	102°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	450kVA
Alternator Efficiency	93.3%

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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

MCCB

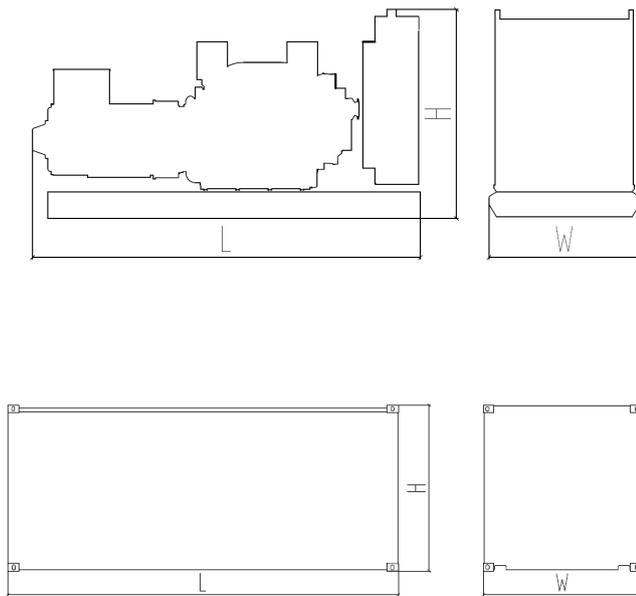
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OPTIONS

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)

Overall Dimensions: 3200×1400×2100 mm

Weight: 3030 kg

Soundproof Type

Overall Dimensions: 4630×1660×2250 mm

Weight: 4450 kg

Specifications are subject to change without notice.

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POWER GENERATION

