

MODEL: BF-C500-60

440V | 1800rpm | 60Hz



ESP Standby Power	550kVA	PRP Prime Power	500kVA
ENGINE	CCEC Cummins	ALTERNATOR	STAMFORD
	KTA19-G3		S4L1D-F41

GENERAL FEATURES

Engine: CCEC Cummins KTA19-G3

Alternator: single bearing, IP23, insulation class H

40°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	662	440kW/550kVA	400kW/500kVA
460/266	60	3	0.8	690	440kW/550kVA	400kW/500kVA
440/254	60	3	0.8	722	440kW/550kVA	400kW/500kVA
416/240	60	3	0.8	763	440kW/550kVA	400kW/500kVA

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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ENGINE SPECIFICATION

Manufacturer / Model CCEC Cummins KTA19-G3

Air intake system Turbocharged, water/air cooling

Fuel system PT type fuel pump

Cylinder arrangement 6 in line

Displacement 19L

Bore and stroke 159×159 mm

Compression ratio 13.9

Rated speed 1800rpm

Max. Standby power at rated speed 511kW

Governor type Electronic

Exhaust System

Exhaust gas flow 102.8 m³/min

Exhaust temperature 491°C

Max back pressure 10kPa

Air Intake System

Max intake restriction 6.2kPa

Combustion air flow 38.8 m³/min

Air flow required for radiator 750 m³/min



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Fuel System

Fuel consumption @ 100% (Prime Power) Load	204g/kWh	105.9L/h
Fuel consumption @ 75% (Prime Power) Load	211g/kWh	82.0L/h
Fuel consumption @ 50% (Prime Power) Load	199g/kWh	52.4L/h

Oil System

Total oil capacity	50L
Oil sump capacity	32-38L

Cooling System

Coolant capacity	93L
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	500kVA
Alternator Efficiency	93.2%

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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

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OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

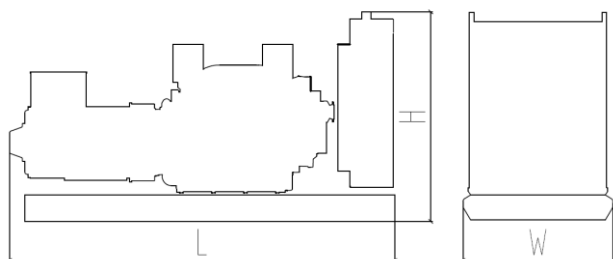
Spare parts

Trailer type

Switch box

Automatic transfer switch

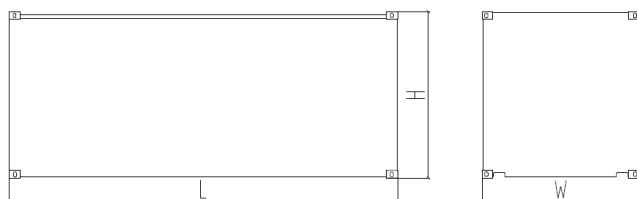
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 3450×1400×2100 mm

Weight: 4000 kg



Soundproof Type

Overall Dimensions: 4630×1660×2250 mm

Weight: 5600 kg

Specifications are subject to change without notice.

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