

MODEL: BF-C650

400V | 1500rpm | 50Hz



ESP Standby Power	650 kVA	PRP Prime Power	N/A
ENGINE	CCEC Cummins	ALTERNATOR	STAMFORD
	KTA19-G8		S5L1D-E41

GENERAL FEATURES

Engine: CCEC Cummins KTA19-G8

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)
440/254	50	3	0.8	852	520/650	N/A
415/240	50	3	0.8	904	520/650	N/A
400/230	50	3	0.8	938	520/650	N/A
380/220	50	3	0.8	987	520/650	N/A

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	CCEC Cummins KTA19-G8
Air intake system	Turbo, Water/Air cooling
Fuel system	PT type fuel pump, EFC
Cylinder arrangement	6 in line
Displacement	18.9L
Bore and stroke	159*159 (mm)
Compression ratio	13.9:1
Rated speed	1500rpm
Max. Standby power at rated speed	575KW/782HP
Governor type	Electronic

Exhaust System

Exhaust gas flow	118.5 m ³ /min
Exhaust temperature	571 °C
Max back pressure	10kPa

Air Intake System

Max intake restriction	6.23kPa
Combustion air flow	46.32 m ³ /min
Air flow required for radiator	900 m ³ /min

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	209 g/kWh	138 L/h
Fuel consumption @ 75% (Prime Power) Load	N/A	N/A
Fuel consumption @ 50% (Prime Power) Load	N/A	N/A

Oil System

Total oil capacity	50L
Oil consumption	≤4g/kwh
Oil sump capacity	32~38L

Cooling System

Coolant capacity	100L
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	610kVA
Alternator Efficiency	94.9%

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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)	$\leq +25\%$
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	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: 3450×1400×2100 mm
Weight: 4500 kg
Soundproof Type
Overall Dimensions: 4630×1660×2250 mm
Weight: 5945 kg

Specifications are subject to change without notice.

BAIFA POWER (WUXI) LTD.
WEBSITE: WWW.BAIFAPOWER.COM
EMAIL: MARKETING@BAIFAPOWER.COM
TEL: +86-510-85342633

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