

MODEL: BF-C1800

400V | 1500rpm | 50Hz



ESP Standby Power	1800 kVA	PRP Prime Power	1650 kVA
ENGINE	CCEC Cummins	ALTERNATOR	STAMFORD
	KTA50-G15X		S7L1D-D4

GENERAL FEATURES

Engine: CCEC Cummins KTA50-G15X

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	2362	1440kW/1800kVA	1320kW/1650kVA
415/240	50	3	0.8	2504	1440kW/1800kVA	1320kW/1650kVA
400/230	50	3	0.8	2598	1440kW/1800kVA	1320kW/1650kVA
380/220	50	3	0.8	2734	1440kW/1800kVA	1320kW/1650kVA

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 KTA50-G15X
Air intake system	Turbo, Air/Water cooling
Fuel system	PT type fuel pump
Cylinder arrangement	16 in V
Displacement	50.3L
Bore and stroke	159*159 (mm)
Compression ratio	13.9:1
Rated speed	1500rpm
Max. Standby power at rated speed	1656KW
Governor type	Electronic

Exhaust System

Exhaust gas flow	303 m ³ /min
Exhaust temperature	601 °C
Max back pressure	5kPa

Air Intake System

Max intake restriction	6.23kPa
Combustion air flow	116 m ³ /min
Air flow required for radiator	1800 m ³ /min

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Fuel consumption @ 100% (Prime Power) Load	195g/kWh	328L/h
Fuel consumption @ 75% (Prime Power) Load	198g/kWh	252L/h
Fuel consumption @ 50% (Prime Power) Load	204g/kWh	177L/h

Oil System

Total oil capacity	204L
Oil consumption	≤4g/kwh
Oil sump capacity	148~178L

Cooling System

Coolant capacity	460L
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	1650kVA
Alternator Efficiency	95.5%

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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	

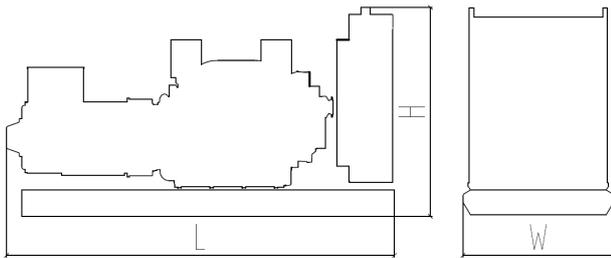
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OPTIONS

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

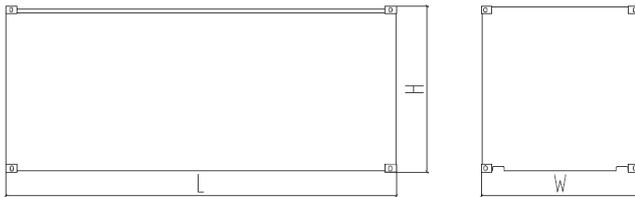
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 5800×2200×2800 mm

Weight: 11300 kg



Soundproof Type (standard 20'ft HQ container)

Overall Dimensions: 6058×2438×2896 mm

Weight: 16300 kg

Specifications are subject to change without notice.

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