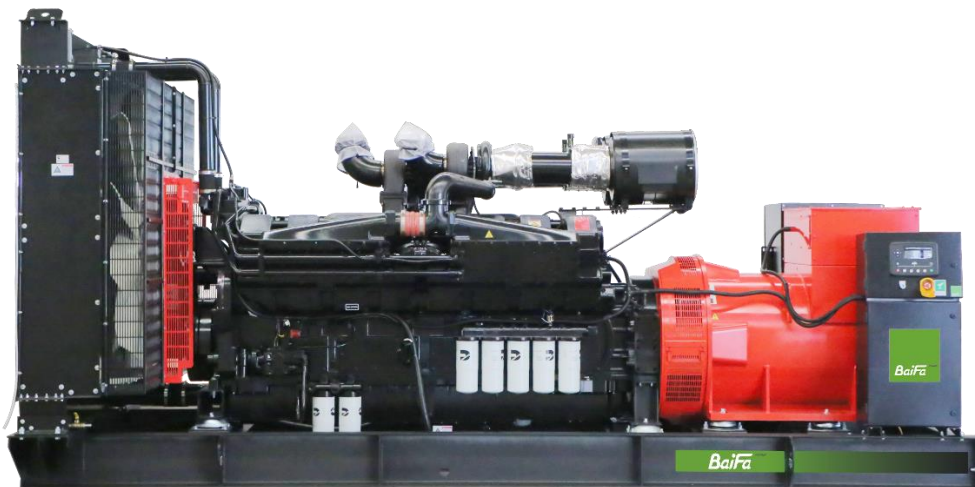


MODEL: BF-C1600-60

440V | 1800rpm | 60Hz

**ESP**

Standby Power

1875kVA**PRP**

Prime Power

1600kVA**ENGINE**

CCEC Cummins

KTA50-G9

ALTERNATOR

STAMFORD

S7L1D-C4

GENERAL FEATURES

Engine: CCEC Cummins KTA50-G9

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



MODEL: BF-C1600-60

440V | 1800rpm | 60Hz

GENERATOR RATINGS

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
480/277	60	3	0.8	2255	1500kW/1875kVA	1280kW/1600kVA
460/266	60	3	0.8	2353	1500kW/1875kVA	1280kW/1600kVA
440/254	60	3	0.8	2460	1500kW/1875kVA	1280kW/1600kVA
416/240	60	3	0.8	2602	1500kW/1875kVA	1280kW/1600kVA

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.

MODEL: BF-C1600-60

440V | 1800rpm | 60Hz

ENGINE SPECIFICATION

Manufacturer / Model CCEC Cummins KTA50-G9

Air intake system Turbocharged, water/air cooling

Fuel system PT type fuel pump

Cylinder arrangement 16 in V

Displacement 50L

Bore and stroke 159×159 mm

Compression ratio 13.9

Rated speed 1800rpm

Max. Standby power at rated speed 1656kW

Governor type Electronic

Exhaust System

Exhaust gas flow 301.5 m³/min

Exhaust temperature 515°C

Max back pressure 7kPa

Air Intake System

Max intake restriction 6.2kPa

Combustion air flow 124.5 m³/min

Air flow required for radiator 2076 m³/min



MODEL: BF-C1600-60

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	203g/kWh	332L/h
Fuel consumption @ 75% (Prime Power) Load	210g/kWh	260L/h
Fuel consumption @ 50% (Prime Power) Load	221g/kWh	187L/h

Oil System

Total oil capacity	204.4L
Oil sump capacity	148-178L

Cooling System

Coolant capacity	375L
Max water temperature	104°C



MODEL: BF-C1600-60

440V | 1800rpm | 60Hz

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	1819kVA
Alternator Efficiency	95.3%

MODEL: BF-C1600-60

440V | 1800rpm | 60Hz

GENERATING SET DATA

Related range of voltage setting	$\geq \pm 5\%$
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Steady-state voltage deviation	$\leq \pm 1\%$
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Transient voltage deviation (100 % sudden power decrease)	$\leq +25\%$
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Transient voltage deviation (sudden power increase)	$\leq -20\%$
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Voltage recovery time (100 % sudden power decrease)	$\leq 6S$
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Voltage recovery time (sudden power increase)	$\leq 6S$
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Related range of frequency setting	0-5% adjustable
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Steady-state frequency band	$\leq 1.5\%$
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Transient frequency deviation (100 % sudden power decrease)	$\leq +12\%$
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Transient frequency deviation (sudden power increase)	$\leq -10\%$
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Frequency recovery time (100 % sudden power decrease)	$\leq 5S$
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Frequency recovery time (sudden power increase)	$\leq 5S$
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STANDARD FEATURES

Standard auto control system	Exhaust system (including until muffler)	Documents
Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	

MODEL: BF-C1600-60

440V | 1800rpm | 60Hz

OPTIONS

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

Spare parts

Trailer type

Switch box

Automatic transfer switch

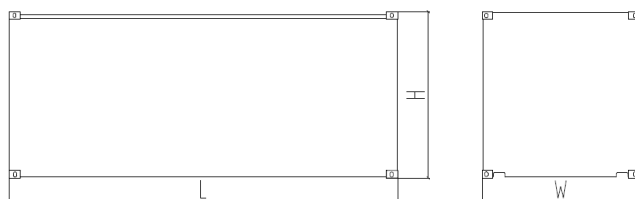
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 5550×2150×2550 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.

BAIFA POWER (WUXI) LTD.

WEBSITE: WWW.BAIFAPOWER.COM

EMAIL: MARKETING@BAIFAPOWER.COM

TEL: +86-510-85342633

Comprehensive Solutions For
POWER GENERATION