

MODEL: BF-C175

400V | 1500rpm | 50Hz



ESP

Standby Power

175 kVA

PRP

Prime Power

160 kVA

ENGINE

DCEC Cummins

6CTA8.3-G1

ALTERNATOR

STAMFORD

UC1274F1

GENERAL FEATURES

Engine: DCEC Cummins 6CTA8.3-G1

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

**MODEL: BF-C175****400V | 1500rpm | 50Hz**

GENERATOR RATINGS

Voltage	Hz	Phase	PF (COS Φ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	230	140/175	128/160
415/240	50	3	0.8	243	140/175	128/160
400/230	50	3	0.8	253	140/175	128/160
380/220	50	3	0.8	266	140/175	128/160

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-C175****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	DCEC Cummins 6CTA8.3-G1
----------------------	-------------------------

Air intake system	Turbo, Water/Air Cooling
-------------------	--------------------------

Fuel system	PB type fuel pump
-------------	-------------------

Cylinder arrangement	6 in line
----------------------	-----------

Displacement	8.3L
--------------	------

Bore and stroke	114*135 (mm)
-----------------	--------------

Compression ratio	17.3:1
-------------------	--------

Rated speed	1500rpm
-------------	---------

Max. Standby power at rated speed	180KW/241HP
-----------------------------------	-------------

Governor type	Mechanical
---------------	------------

Exhaust System

Exhaust gas flow	34.7 m ³ /min
------------------	--------------------------

Exhaust temperature	570 °C
---------------------	--------

Max back pressure	10kPa
-------------------	-------

Air Intake System

Max intake restriction	6kPa
------------------------	------

Combustion air flow	12.4 m ³ /min
---------------------	--------------------------

Air flow required for radiator	238 m ³ /min
--------------------------------	-------------------------

**MODEL: BF-C175****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	215 g/kWh	36.5 L/h
Fuel consumption @ 75% (Prime Power) Load	211 g/kWh	27.1 L/h
Fuel consumption @ 50% (Prime Power) Load	216 g/kWh	18.9 L/h

Oil System

Total oil capacity	27.6L
Oil consumption	≤4g/kwh
Oil sump capacity	15.1~18.9L

Cooling System

Coolant capacity	34L
Max water temperature	104℃

**MODEL: BF-C175****400V | 1500rpm | 50Hz**

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	160kVA
Alternator Efficiency	92.3%

**MODEL: BF-C175****400V | 1500rpm | 50Hz****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	Special tools
-----------------	---	---------------

Base fuel tank	MCCB	
----------------	------	--

MODEL: BF-C175**400V | 1500rpm | 50Hz****OPTIONS**

Daily fuel tank

Rainproof type

Remote control panel

Alternator heater

Soundproof type

Paralleling system

Spare parts

Trailer type

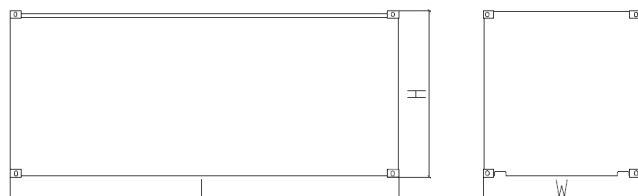
Switch box

Automatic transfer switch

DIMENSIONS & WEIGHT**Standard Configuration (open type with base fuel tank)**

Overall Dimensions: 2450×950×1850 mm

Weight: 1700 kg

**Soundproof Type**

Overall Dimensions: 3230×1170×1800 mm

Weight: 2350 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