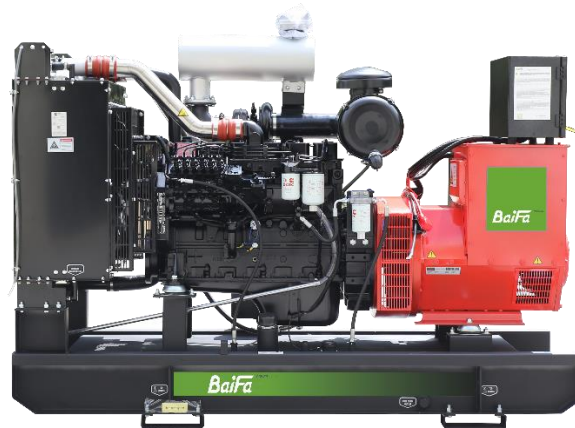


MODEL: BF-C142-60

440V | 1800rpm | 60Hz



ESP	156kVA	PRP	145kVA
ENGINE	DCEC Cummins	ALTERNATOR	STAMFORD
	6BTAA5.9-G2		UCI274E1

GENERAL FEATURES

Engine: DCEC Cummins 6BTAA5.9-G2

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



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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	188	125kW/156kVA	116kW/145kVA
460/266	60	3	0.8	196	125kW/156kVA	116kW/145kVA
440/254	60	3	0.8	205	125kW/156kVA	116kW/145kVA
416/240	60	3	0.8	217	125kW/156kVA	116kW/145kVA

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-C142-60

440V | 1800rpm | 60Hz

ENGINE SPECIFICATION

Manufacturer / Model DCEC Cummins 6BTAA5.9-G2

Air intake system Turbocharged, Air/Air Cooling

Fuel system PB type fuel pump

Cylinder arrangement 6 in line

Displacement 5.9L

Bore and stroke 102×120 mm

Compression ratio 17.3

Rated speed 1800rpm

Max. Standby power at rated speed 145kW

Governor type Electronic

Exhaust System

Exhaust gas flow 24.1 m³/min

Exhaust temperature 570°C

Max back pressure 10kPa

Air Intake System

Max intake restriction 6kPa

Combustion air flow 8.5 m³/min

Air flow required for radiator 348 m³/min



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Fuel System

Fuel consumption @ 100% (Prime Power) Load	211g/kWh	33.6L/h
Fuel consumption @ 75% (Prime Power) Load	212g/kWh	25.6L/h
Fuel consumption @ 50% (Prime Power) Load	223g/kWh	18.7L/h

Oil System

Total oil capacity	16.4L
Oil sump capacity	12.3~14.2L

Cooling System

Coolant capacity	27L
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	167.5kVA
Alternator Efficiency	91.7%



MODEL: BF-C142-60

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)	$\leq 6S$
---	-----------

Voltage recovery time (sudden power increase)	$\leq 6S$
---	-----------

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
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Oil drain valve	Starting batteries (maintenance-free & watering-free) with connective wires	MCCB
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Base fuel tank

MODEL: BF-C142-60

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

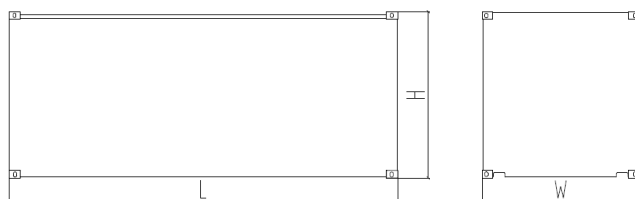
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Dimensions: 2400×900×1700 mm

Weight: 1360 kg



Soundproof Type

Overall Dimensions: 3230×1170×1800 mm

Weight: 2140 kg

Specifications are subject to change without notice.

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POWER GENERATION