

**MODEL: BF-C90-60**

**440V | 1800rpm | 60Hz**



<b>ESP</b> Standby Power	<b>100kVA</b>	<b>PRP</b> Prime Power	<b>90kVA</b>
<b>ENGINE</b>	<b>DCEC Cummins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>4BTA3.9-G11</b>		<b>UCI224G1</b>

**GENERAL FEATURES**

Engine: DCEC Cummins 4BTA3.9-G11	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	120	80kW/100kVA	72kW/90kVA
460/266	60	3	0.8	126	80kW/100kVA	72kW/90kVA
440/254	60	3	0.8	131	80kW/100kVA	72kW/90kVA
416/240	60	3	0.8	139	80kW/100kVA	72kW/90kVA

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-C90-60****440V | 1800rpm | 60Hz****ENGINE SPECIFICATION**

Manufacturer / Model	DCEC Cummins 4BTA3.9-G11
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Air intake system	Turbocharged, Water/Air Cooling
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Fuel system	PB type fuel pump
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Cylinder arrangement	4 in line
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Displacement	3.9L
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Bore and stroke	102×120 mm
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Compression ratio	17.3
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Rated speed	1800rpm
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Max. Standby power at rated speed	90kW
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Governor type	Electronic
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**Exhaust System**

Exhaust gas flow	12.6 m <sup>3</sup> /min
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Exhaust temperature	405°C
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Max back pressure	10kPa
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**Air Intake System**

Max intake restriction	6.2kPa
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Combustion air flow	6.1 m <sup>3</sup> /min
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Air flow required for radiator	186 m <sup>3</sup> /min
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Comprehensive Solutions For

**POWER GENERATION**



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**Fuel System**

Fuel consumption @ 100% (Prime Power) Load	207g/kWh	20.3L/h
Fuel consumption @ 75% (Prime Power) Load	210g/kWh	15.6L/h
Fuel consumption @ 50% (Prime Power) Load	223g/kWh	11.3L/h

**Oil System**

Total oil capacity	11L
Oil sump capacity	8.5~9.5L

**Cooling System**

Coolant capacity	22L
Max water temperature	100°C



**MODEL: BF-C90-60****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	97.5kVA
Alternator Efficiency	90.8%

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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	MCCB
Base fuel tank		

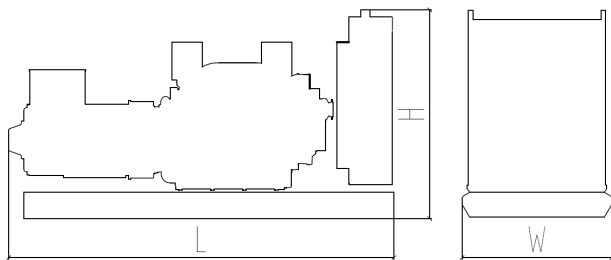
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**OPTIONS**

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

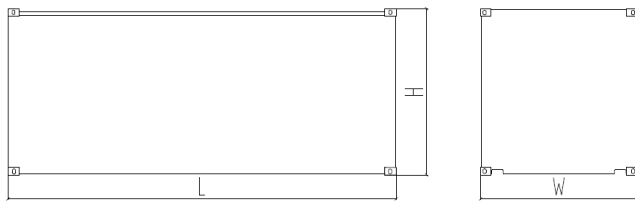
**DIMENSIONS & WEIGHT**



**Standard Configuration (open type)**

Overall Dimensions: 1970×770×1370 mm

Weight: 1080 kg



**Soundproof Type**

Overall Dimensions: 2600×1060×1680 mm

Weight: 1600 kg

*Specifications are subject to change without notice.*

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Comprehensive Solutions For  
**POWER GENERATION**

