

**MODEL: BF-C715Q**

**400V | 1500rpm | 50Hz**



<b>ESP</b> Standby Power	<b>715 kVA</b>	<b>PRP</b> Prime Power	<b>650 kVA</b>
<b>ENGINE</b>	<b>CCEC Cummins</b> <b>QSK19-G4</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b> <b>S5L1D-F41</b>

## GENERAL FEATURES

Engine: CCEC Cummins QSK19-G4

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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Voltage	Hz	Phase	PF ( COS $\Phi$ )	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	938	572/715	520/650
415/240	50	3	0.8	995	572/715	520/650
400/230	50	3	0.8	1032	572/715	520/650
380/220	50	3	0.8	1086	572/715	520/650

**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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## ENGINE SPECIFICATION

Manufacturer / Model	CCEC Cummins QSK19-G4
Air intake system	Turbo, Air/Air cooling
Fuel system	Direct injection Cummins MCRS
Cylinder arrangement	6 in line
Displacement	19L
Bore and stroke	159*159 (mm)
Compression ratio	15.0:1
Rated speed	1500rpm
Max. Standby power at rated speed	634KW/850HP
Governor type	Electronic

## Exhaust System

Exhaust gas flow	132.36 m <sup>3</sup> /min
Exhaust temperature	516 °C
Max back pressure	6.8kPa

## Air Intake System

Max intake restriction	6.23kPa
Combustion air flow	52.56 m <sup>3</sup> /min
Air flow required for radiator	900 m <sup>3</sup> /min

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Fuel consumption @ 100% (Prime Power) Load	215 g/kWh	142 L/h
Fuel consumption @ 75% (Prime Power) Load	219 g/kWh	109 L/h
Fuel consumption @ 50% (Prime Power) Load	234 g/kWh	79 L/h

**Oil System**

Total oil capacity	84.4L
Oil consumption	≤4g/kwh
Oil sump capacity	64.4-72L

**Cooling System**

Coolant capacity	116L
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	670kVA
Alternator Efficiency	95.0%

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## 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)	$\leq +20\%$
Transient voltage deviation (sudden power increase)	$\leq -15\%$
Voltage recovery time (100 % sudden power decrease)	$\leq 4S$
Voltage recovery time (sudden power increase)	$\leq 4S$
Related range of frequency setting	0-5% adjustable
Steady-state frequency band	$\leq 0.5\%$
Transient frequency deviation (100 % sudden power decrease)	$\leq +10\%$
Transient frequency deviation (sudden power increase)	$\leq -7\%$
Frequency recovery time (100 % sudden power decrease)	$\leq 3S$
Frequency recovery time (sudden power increase)	$\leq 3S$

## 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

MCCB

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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		

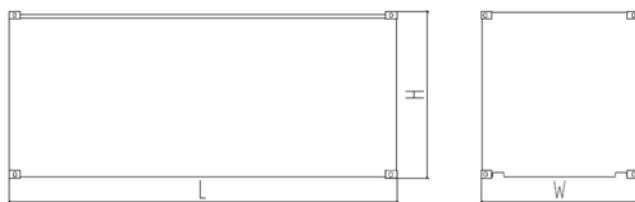
## DIMENSIONS & WEIGHT



### Standard Configuration (open type)

Overall Dimensions: 3780×1500×2200 mm

Weight: 4950 kg



### Soundproof Type

Overall Dimensions: 5530×1860×2550 mm

Weight: 7250 kg

*Specifications are subject to change without notice.*

**BAIFA POWER (WUXI) LTD.**

**WEBSITE: [WWW.BAIFAPOWER.COM](http://WWW.BAIFAPOWER.COM)**

**EMAIL: [MARKETING@BAIFAPOWER.COM](mailto:MARKETING@BAIFAPOWER.COM)**

**TEL: +86-510-85342633**

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**POWER GENERATION**