

**MODEL: BF-C450**

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



<b>ESP</b> Standby Power	<b>450 kVA</b>	<b>PRP</b> Prime Power	<b>N/A</b>
<b>ENGINE</b>	<b>CCEC Cummins</b>	<b>ALTERNATOR</b>	<b>STAMFORD</b>
	<b>NTAA855-G7A</b>		<b>S4L1D-F41</b>

**GENERAL FEATURES**

Engine: CCEC Cummins NTAA855-G7A

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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**GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	590	360/450	N/A
415/240	50	3	0.8	626	360/450	N/A
400/230	50	3	0.8	649	360/450	N/A
380/220	50	3	0.8	684	360/450	N/A

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-C450****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	CCEC Cummins NTAA855-G7A
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Air intake system	Turbo, Air/Air cooling
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Fuel system	PT type fuel pump, EFC
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Cylinder arrangement	6 in line
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Displacement	14L
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Bore and stroke	140*152 (mm)
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Compression ratio	14.0:1
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Rated speed	1500rpm
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Max. Standby power at rated speed	407KW/545HP
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Governor type	Electronic
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**Exhaust System**

Exhaust gas flow	74.4 m <sup>3</sup> /min
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Exhaust temperature	473 °C
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Max back pressure	10kpa
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**Air Intake System**

Max intake restriction	6.22kPa
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Combustion air flow	32.94 m <sup>3</sup> /min
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Air flow required for radiator	490.8 m <sup>3</sup> /min
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**Fuel System**

Fuel consumption @ 100% (Standby Power) Load	199.8 g/kWh	94.7 L/h
Fuel consumption @ 75% (Standby Power) Load	202.1 g/kWh	71.7 L/h
Fuel consumption @ 50% (Standby Power) Load	210.9 g/kWh	50.8 L/h

**Oil System**

Total oil capacity	38.6L
Oil consumption	≤4g/kwh
Oil sump capacity	28.4~36L

**Cooling System**

Coolant capacity	64L
Max water temperature	96°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	415kVA
Alternator Efficiency	93.2%

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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	Special tools

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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**



<b>Standard Configuration (open type)</b>
Overall Dimensions: 3350×1200×1900 mm
Weight: 3100 kg
<b>Soundproof Type</b>
Overall Dimensions: 4230×1460×2150 mm
Weight: 4520 kg

Specifications are subject to change without notice.

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Comprehensive Solutions For  
**POWER GENERATION**

