

MODEL: BF-C412

400V | 1500rpm | 50Hz



ESP Standby Power	412 kVA	PRP Prime Power	375 kVA
ENGINE	CCEC Cummins	ALTERNATOR	STAMFORD
	NTAA855-G7		S4L1D-F41

GENERAL FEATURES

Engine: CCEC Cummins NTAA855-G7

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	541	330/412	300/375
415/240	50	3	0.8	573	330/412	300/375
400/230	50	3	0.8	595	330/412	300/375
380/220	50	3	0.8	626	330/412	300/375

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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Manufacturer / Model	CCEC Cummins NTAA855-G7
Air intake system	Turbo, Air/Air cooling
Fuel system	PT type fuel pump, EFC
Cylinder arrangement	6 in line
Displacement	14L
Bore and stroke	140*152 (mm)
Compression ratio	14.0:1
Rated speed	1500rpm
Max. Standby power at rated speed	377KW/513HP
Governor type	Electronic

Exhaust System

Exhaust gas flow	69 m ³ /min
Exhaust temperature	497 °C
Max back pressure	10kpa

Air Intake System

Max intake restriction	6.22kPa
Combustion air flow	30.6 m ³ /min
Air flow required for radiator	490.8 m ³ /min

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Fuel System

Fuel consumption @ 100% (Prime Power) Load	206.7 g/kWh	81.7 L/h
Fuel consumption @ 75% (Prime Power) Load	208.7 g/kWh	62.1 L/h
Fuel consumption @ 50% (Prime Power) Load	215.7 g/kWh	43.9 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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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

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: 3350×1200×1900 mm

Weight: 3100 kg

Soundproof Type

Overall Dimensions: 4230×1460×2150 mm

Weight: 4520 kg

Specifications are subject to change without notice.

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