

MODEL: BF-SC500

400V | 1500rpm | 50Hz



ESP Standby Power	500kVA	PRP Prime Power	450kVA
ENGINE	Scania	ALTERNATOR	STAMFORD
	DC13 073A 02-23		S4L1D-G41

GENERAL FEATURES

Engine: Scania DC13 073A 02-23

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)
440/254	50	3	0.8	656	400kW/500kVA	360kW/450kVA
415/240	50	3	0.8	696	400kW/500kVA	360kW/450kVA
400/230	50	3	0.8	722	400kW/500kVA	360kW/450kVA
380/220	50	3	0.8	760	400kW/500kVA	360kW/450kVA

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	Scania DC13 073A 02-23
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Air intake system	Turbo, Air/Air Cooling
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Fuel system	Electronic Injection
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Cylinder arrangement	6 in line
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Displacement	12.7L
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Bore and stroke	130×160 mm
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Compression ratio	16.3:1
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Rated speed	1500rpm
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Max. Standby power at rated speed	438kW
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Governor type	EMS
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Exhaust System

Exhaust gas flow	34kg/min
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Exhaust temperature	549°C
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Max back pressure	10kPa
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Air Intake System

Max intake restriction	6.5kPa
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Combustion air flow	33kg/min
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Air flow required for radiator	360kg/min
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Fuel consumption @ 100% (Prime Power) Load	196g/kWh	91L/h
Fuel consumption @ 75% (Prime Power) Load	200g/kWh	70L/h
Fuel consumption @ 50% (Prime Power) Load	198g/kWh	47L/h

Oil System

Total oil capacity	36L
Oil consumption ratio based on fuel consumption data	≤0.3g/kwh
Oil sump capacity	30-36L

Cooling System

Coolant capacity	38L
Max water temperature	95°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	450kVA
Alternator Efficiency	93.3%

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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)	$\leq +20\%$
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	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: 3230×1270×1930 mm
Weight: 2900 kg
Standard Configuration (with base fuel tank)
Overall Dimensions: 3230×1270×1940 mm
Weight: 2930 kg
Soundproof Type
Overall Dimensions: 4230×1460×2250 mm
Weight: 3840 kg

Specifications are subject to change without notice.

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