

MODEL: BF-SC700

400V | 1500rpm | 50Hz



ESP Standby Power	700kVA	PRP Prime Power	635kVA
ENGINE	Scania DC16 093A 02-54	ALTERNATOR	STAMFORD S5L1D-F41

GENERAL FEATURES

Engine: Scania DC16 093A 02-54

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

**MODEL: BF-SC700****400V | 1500rpm | 50Hz****GENERATOR RATINGS**

Voltage	Hz	Phase	PF (COSΦ)	Standby Amps	Standby Ratings (kW / kVA)	Prime Ratings (kW / kVA)
440/254	50	3	0.8	919	560kW/700kVA	508kW/635kVA
415/240	50	3	0.8	974	560kW/700kVA	508kW/635kVA
400/230	50	3	0.8	1010	560kW/700kVA	508kW/635kVA
380/220	50	3	0.8	1064	560kW/700kVA	508kW/635kVA

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-SC700****400V | 1500rpm | 50Hz****ENGINE SPECIFICATION**

Manufacturer / Model	Scania DC16 093A 02-54
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Air intake system	Turbo, Air/Air Cooling
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Fuel system	Elec. Injection
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Cylinder arrangement	8 in "V"
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Displacement	16.4L
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Bore and stroke	130×154 (mm)
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Compression ratio	15.7:1
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Rated speed	1500rpm
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Max. Standby power at rated speed	614W
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Governor type	EMS
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Exhaust System

Exhaust gas flow	46kg/min
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Exhaust temperature	546℃
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Max back pressure	10kPa
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Air Intake System

Max intake restriction	6kPa
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Combustion air flow	44Kg/min
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Air flow required for radiator	600Kg/min
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**MODEL: BF-SC700****400V | 1500rpm | 50Hz****Fuel System**

Fuel consumption @ 100% (Prime Power) Load	197 g/KWh	127L/h
Fuel consumption @ 75% (Prime Power) Load	189 g/KWh	92L/h
Fuel consumption @ 50% (Prime Power) Load	193 g/KWh	63L/h

Oil System

Total oil capacity	48L
Oil consumption ratio based on fuel consumption data	≤0.2g/kwh
Oil sump capacity	40-48L

Cooling System

Coolant capacity	24L(Without radiator)
Max water temperature	105°C

**MODEL: BF-SC700****400V | 1500rpm | 50Hz****ALTERNATOR SPECIFICATION****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	MCCB

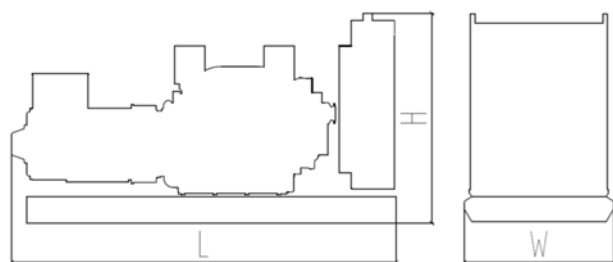
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OPTIONS

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

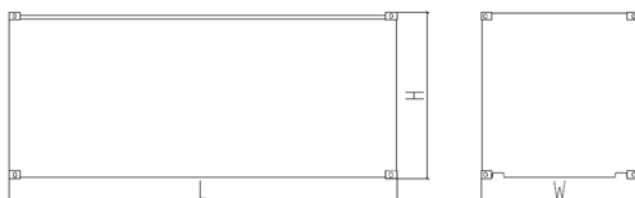
DIMENSIONS & WEIGHT



Standard Configuration (open type)

Overall Size: 3440×1270×1930 (mm)

Weight: 3820kg



Soundproof Type

Overall Size: 5030×1660×2550 (mm)

Weight: 5830kg

Specifications are subject to change without notice.

BAIFA POWER (WUXI) LTD.

WEBSITE: WWW.BAIFAPOWER.COM

EMAIL: MARKETING@BAIFAPOWER.COM

TEL: +86-510-85342633

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