

FG500SC

Output Power Ratings			Prime*		Standby**	
R P M	Frequency	Voltage	Kva	kW	Kva	kW
1500	50Hz	380-415	450	360	500	400

The above KW ratings are at 0.8 pf Guaranteed within conditions equivalent to those specified in ISO 8528-1, ISO3046-1 and BS5514-1

Engine Technical Data	
Engine Make and Model	Scania DC13072A
Cylinders	6 Vertical In-Line
Aspiration	Turbocharged and air-to-air charge cooled
Combustion System	Direct Injection
Displacement	12,7 liters
Governor	Electronic
Emissions Regulations	-
Electrical Starting System	24 Volt , 120 Amp Alternator With DC Out Put

Air Systems	
Air Filter Type	Dry replaceable element
Combustion	50 Hz
Air Flow kg /min	32

Fuel System			
Fuel Filter Type	Fuel Filter (Replaceable)		
Recommended Fuel	Class A2 Diesel		
Fuel Consumption	Engine Speed	L/h	(gr/KW)
	Standby L/h	97,79	192
	Prime Power L/h	87,16	186
	75% of Prime Power L/h	64,32	183
	50% of Prime Power L/h	43,35	185
Fuel Tank Capacity: Open / Close	1000 L		

Lubrication System	
Lube Oil	API-CH4/CI4 SAE 15W-40 (-10° C to 50° C Ambient Temperature)
Lube Oil Capacity	45 L
Oil Filter Type	Oil Filter (Replaceable)
Oil Cooling Method	Water

Cooling System	
Coolant Capacity	38 L
Cooling System	Mounted Radiator, AIR-AIR Charge cooled
Radiator Cooling Air Flow (Min): Kg /sec	6,0 - 11,5



Exhaust System	
Exhaust Gas Flow Kg /min	34
Exhaust Gas Maximum Temp	Prime
	Standby
	50 Hz
	536°C
	536°C

Alternator Technical Data	Leroy Somer
Model Number	TAL047B
No. of Poles	4
Number of Terminals (Leads)	6
A.V.R. & Excitation	R150
Regulation	± 1%
Ingress Protection	IP-23
Insulation Class	H
THD at Full Load %	<5.0%
THD at No Load %	<3.5%

Controller Features	Deep sea 7320 ,UK
Controller Make and Model	Auto Mains Failure (AMF) applications including remote communication , User configuration and complete gen-set monitoring and protection. Ready for generators with 3 ph 4 wires / 3 ph 3 wires / Mono ph
Engine Protections	<ul style="list-style-type: none"> • Oil pressure • Coolant temperature • Fuel level (Optional) • Coolant level (Optional)
Generator Protections	<ul style="list-style-type: none"> • Over / Under voltage • Over/Under frequency • Phases Sequence • Over current • Charging Alternator Fault
Inputs and Outputs	<ul style="list-style-type: none"> • 4 No's Configurable analog inputs • 7 No's binary inputs • 6 No's binary outputs • D + Pre-Excitation terminal
Event and Performance Log	<ul style="list-style-type: none"> • Gen-set text alarm log • For More Features We Can Use Higher Controller • Engine hours history log



Genset Enclosure Specification (optional)	
Enclosure Type	Acoustic and Weather Proof
Anticorrosive Protection	Polyester Powder Coated Sheet
Access Doors	5
Drainage	Fuel & Water Drainage Provision
Transportation	Tested Two Point Lifting Facility
Noise Level (@ Free-Field Conditions)	72 dBA @ 7 meter
Water Fill	Radiator Water Filling Provision
Cable Access	Cable Inlet and Outlet Provision
Emergency Stop	External Emergency Push Button

Shipping Data				
Type	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
Open	3500	1750	2050	3260
Enclosed	5000	1750	2315	4950

Notes:

*Prime power rating of the generating set is where a variable load and unlimited hours usage are applied on the generating set with an average load factor of 80% of the prime rating over each 24 hour period. Noting that a 10% overload is available for 1 hour in every 12 hours operation

**Standby power rating of the generating set is where a variable load limited to an annual usage upto 500 hours is applied, with 300 hours of which may be continuous running. Noting that no overload is permitted

All generators carry a one year or (1000) hours' manufacturer's warranty

In line with our policy of continuous development, FENSA reserves the right to change specification without notice

