

DEPARTEMENT OUTILLAGE

GROUPE ELECTROGENE 40KVA DIESEL TRIPHASE
AVEC INVERSEUR AUTOMATIQUE

	Firman FG184J	Generator Model:	SDG40C
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50HZ

3-Phase

Power Factor
Cosφ=0.8

RATINGS	PRIME POWER (PRP)		STANDBY POWER(ESP)		
	SDG40C				
Voltage	kVA	kWe	kVA	kWe	Amps
380/220	40	32	44	35.2	67
Noise level @7m	78db				
Fuel Tank	80L				

DEFINITION OF RATINGS & REFERENCE CONDITIONS

Standby Power ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. No overload capability for this rating. Ratings are in accordance with ISO 8528, ISO 3046 and BS 5514. Average load factor: ≤ 80%. Operating hours/year: max. 500.

Prime Power ratings apply to installations where utility power is unavailable or unreliable. At varying loads, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528, ISO 3046 and BS 5514. Average load factor: ≤ 70%. Operating hours/year: unlimited.

Continuous Power ratings apply to installations where the generator set serves as utility. At constant load, the number of generator set operating hours is unlimited. No overload capability for this rating. Ratings are in accordance with ISO 8528, ISO 3046 and BS 5514. Average load factor: ≤ 100%. Operating hours/year: unlimited.

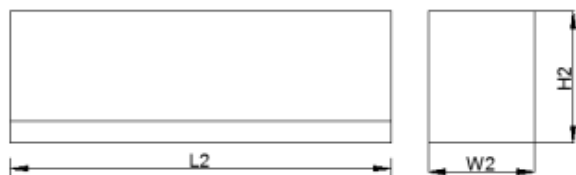
Firman generator sets are sized suitably for conditions of up to >25/≤40°C ambient temperature and >100m/≤1000m above sea



Key Features:

- Efficient water cooled diesel engine.
- Radiator with pressure cap and drain point
- Fully guarded engine-driven fan
- Fully welded steel baseframe with lifting / jacking points
- Various fuel system options
- Heavy duty rubber anti-vibration mountings
- 24V starter batteries and connecting cables
- Separate engine-driven battery charging alternator
- Spin on oil and fuel filters and dry type air filter element
- Auto Start control with digital instrumentation
- Factory Test Certificate
- Operation & Maintenance Manual
- Wide range of optional extra features available

Overall Dimensions



(2) Silent type

Length (L2) = 2280mm
Width (W2) = 1010mm
Height (H2) = 1550mm
Weight=1400kg

*Specifications and designs are subjected to change without prior notice

ENGINE&COOLING SYSTEM			Cummins 4BT3.9-G2	
General Data	Engine Speed		r/min	1500
	Compression Ratio			17.3:1
	Cylinders/ Types			4 cyl/ In line
	Aspiration			Turbocharger and air charge cooled
	Cooling Mode			Closed Circulation Water Cooling
	Governor Type			RSV Mechanical
	Bore/ Stroke		mm	102/120
	Displacement		litres	3.9
	Lubrication System			Pressure Splashed
	Lube Oil Capacity (L)		litres	10.9
	Lube Oil type			15W40-CF4 Upgrade
	Fuel consumption	100% Load	L/hr	10
		75% Load	L/hr	7.9
		50% Load	L/hr	5.9
	Air Intake System			Turbocharged, Air/Air Cooling
	Intake Air Flow		L/sec	45
	Oil Consumption		g/kwh	<=4
	Exhaust Gas Flow		L/sec	108
	Exhaust Temperature		°C	487
	Max Back Pressure		kPa	10
	Max Intake Restriction		kPa	6
	Total Coolant Capacity-Engine only		litres	7.2
	Thermostat		°C	82-95
	Max Water Temperature		°C	104
	Starting System		V	24V Electric
	Battery Capacity(V-Ah)		V	2x60AH

ALTERNATOR			Firman	FG184J
General Data	Model (may vary with voltage)			FG184J
	Operating Temperature	°C		40
	Coupling / No. of Bearings			Direct / Single Bearing
	Phase / Poles			3-Phase / 4-Pole
	Winding Pitch			"Y" Type connecting
	Power Factor			Cos Φ = 0.8
	Excitation			Brushless
	Insulation System			Class H
	Telephone interference			THF < 2 %
	Total Harmonic Distortion (No Load)			<1.5%
	Voltage Regulation			±1% using MX341
	Protection Grade			IP23
	Alternator Efficiency at 0.8PF	100% Load		92.9%
		75% Load		93.4%
		50% Load		93.3%

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DEEPSEA DSE7320 AUTO MAINS FAILURE CONTROLLER

The DSE7320 is an Auto Mains (Utility) Failure Control Module suitable for a wide variety of single, diesel or gas, gen-set applications. Monitoring an extensive number of engine parameters, the modules will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LEDs. The modules include USB, RS232 and RS485 ports.

KEY FEATURES:

- kW & kVAr protection
- Reverse power (kW & kVAr) protection
- LED and LCD alarm indication
- Power monitoring (kWh, kVAr, kVAh, kVArh)
- Automatic load transfer (DSE7320)
- Engine exerciser
- Unbalanced load protection
- Independent earth fault trip
- Balancing timer (DSE7310 only)
- USB connectivity
- Backed up real time clock
- Configuration Suite PC software



GENERATING SET OPTIONS

Engine:



Alternator:



Controller:

