

# SGR-330 Generating set Technical Data Sheet



**ISO9001:2000**



**SOYGEN<sup>®</sup>**  
GENERATOR

# STANDART SPECIFICATION

## General features:

- Composed of RICARDO diesel engine and Stamford, Sincro or Stamford copy
- DG series Stamford COPY brushless alternator
- 24V DC start motor and storage battery
- Brushless, Self-excited, IP23, insulation class H alternator
- 50°C radiator as standard
- Key start panel control system as standard, digital auto-start panel is optional
- 500 Lt fuel tank in base frame
- Optional open type or silent type
- All generator sets are gone through rigorous testing before being released to the market place, including 50% load, 75% load, 100% load , 110% load and all protection function (overspeed stop, high water temperature, low oil pr essure, battery charging fail, emergency stop)

## Genset Main Technical Data

3P4W, 50Hz, 230/400V and 480V (Can Be Made According To Customers' Special Requirements)

GENSET MODEL	Genset Specification					Engine Specification				Alternator Model
	KVA		Cons 100% (L/H)	dB(A) @7m	Tank (L)	Model	Cyl .	Gov.	Asp.	
	ESP	PRP								
SGR-330	330	300	62.5	78	500	R6126ZLD	6	E	TCA	SGR330

1) Available in various voltages

2) To show SOYGEN Generating Sets Model

3) ESP=Standby power standby duty, operation under variable load, without overload.

PRP=Prime power continuous duty operation, under variable load, 10% overload permissible 1/12hr.

4) E=Electronic speed governor;

M=Mechanical speed governor

5) Asp=Aspiration; NA=Naturally

Asp; TC=Turbocharged;

TW=Turbocharged after cooled;

TCA= Turboc harged air-air after cooled

6) Technical data is subject to work test conditions

## Reliable Performance

### Voltage regulation

Voltage regulation maintained within  $\pm 0.5\%$  as follow:

- Power factor Between 0.8~1.0 lag
- From no load to full load, any steady load
- Speed droop variation under 4.5%

### Frequency/Speed undulation

- Change load from 0-100%, Frequency/Speed Droop Ratio within 5%.
- Load from 25-100%, any steady load Frequency/Speed undulation within 0.25%

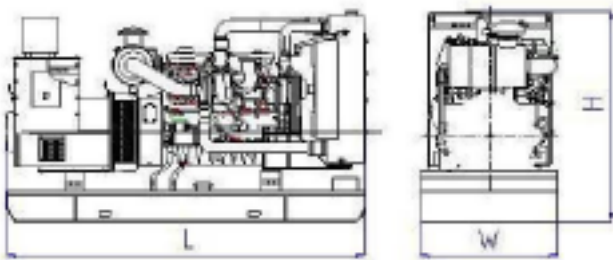
### Effect factor of telecom

- TIF( MA MG1-22) better than 50
- THF( BS EN60034) better than 2%

## Criterion

- ISO8528, GB/T2820
- EN12601:2001, EN60034-22:1997, EN60204-1:2006
- ISO9001:2000 Quality Control System

## Dimension Weight

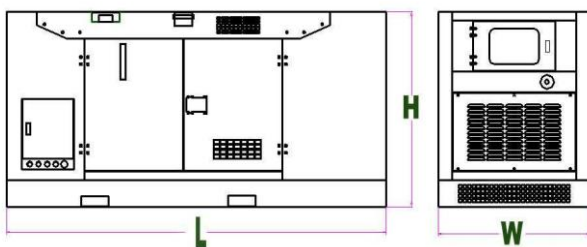


### Open Type

Overall size (L\*W\*H)

3200\*1125\*1800

Weight: 2500kg



### Silent Type

Overall size (L\*W\*H)

4000\*1300\*2050

Weight: 2950kg

## Engine Specification

### RICARDO Diesel Engine Technical Data

Engine Model	RICARDO R6126ZLD
Number of Cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbocharged Air-Air Aftercooled
Bore×Stroke (mm×mm)	135*150
Displacement (Liter)	12.90
Compression Ratio	16:1
Prime Power/Speed (kW/rpm)	240/1500RPM
Standby Power/Speed (kW/rpm)	264/1500RPM
Speed Governor	Electronic
Cooling System	Water-cooled, 50°C radiator is standard
Speed Stability (%)	≤1%
Total lubrication system capacity (L)	50
Coolant capacity (without radiator) (L)	30
Fuel Consumption at 100% Load (L/H)	62,5
Starter Motor	DC24V
Start type	Electrical

## Alternator Specification

### Stamford Copy Alternator (Standard) Technical Data

Alternator Model	SGR-330
Exciter type	Brushless, Self-excited
Power factor	0.8
Voltage Adjust range	≥5%
Voltage Regulation NL-FL	≤±0.5%
Insulation Grade	H
Protection Grade	IP23

# Control System

## 1. Standard: Deepsea DSE7320 AMF Digital Controller DATAKOM D300

Providing the standard functions as follows:

(Also can be made according to the customers' special requirements)

- \* Automatic Start/Stop
- \* Settings can be adjustable via key buttons on front panel
- \* 3 start attempts failure and Automatic Crank Disconnect
- \* Parameters display (V/A/Hz/Hour)
- \* Engine monitoring and protection
- \* Charge alter nator exciting and Charge alternator fail alarm
- \* Running hour counting
- \* Emergency stop pushbutton
- \* Alarm System: Over speed, High Engine Temperature Low Oil Pressure, Charge Fail
- \* Protection System: Over speed, High Engine Temperature, Low Oil Pressure , Emergency Stop. And the other protection function pre-setting

Digital Auto-start Generator controller integrating digital, intelligent and network techniques is used for automatic control system of diese I generator. It can carry out functions including automatic start/stop, data measure and alarming. Optionally assembled with the ATS, it can carry out auto-switching between the outer power and generating set power. (AMF)

2. Option: Harsen GU641B AMF Digital Auto Start
3. Option: ComAp AMF25 Digital Auto Start
4. Option: Deepsea DSE3110 Digital Auto Start



(1) DSE7320



(2) GU641B out auto-switching



(3) AMF25



(4) DSE3110