SGR-225 Generating set Technical Data Sheet





ISO9001:2000





STANDARD SPECIFICATION

General features:

- Composed of RICARDO diesel engine and Stamford, Sincro or 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
- 340 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, 220/380V (Can Be Made According To Customers' Special Requirements)

	Genset Specification					Engine Specification				
GENSET	K۱	/A	Cons							Alternator
MODEL	ESP	PRP	100% (L/H)	dB(A) @7m	Tank (L)	Model	Cyl	Gov.	Asp.	Model
SGR-225	225	200	42,5	78	340	R6108IZLD	6	Е	TCA	SGR-225

- 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

http://www.soygengenerator.com

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Specifications may change without Notice

Reliable Performance

Voltage regulation

Voltage regulation maintained within ±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%

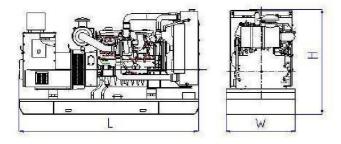
Effect factor of telecom

- 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 and Weight



Open Type

Overall size (L*W*H) 2400*1000*1500 Weight: 1500kg

Silent Type

Overall size (L*W*H) 3100*1100*1750 Weight: 1825kg

ENGINE SPECIFICATION

RICARDO Diesel Engine

Technical Data

Engine Model	R6108IZLD					
Number of Cylinders	6					
Cylinder arrangement	Vertical in-line					
Cycle	Four stroke					
Aspiration	Turbocharged Air-Air Aftercooled					
Bore×Stroke (mm×mm)	105*135					
Displacement (Liter)	7,01					
Compression Ratio	16.5:1					
Prime Power/Speed (kW/rpm)	156/1500RPM					
Standby Power/Speed (kW/rpm)	170/1500RPM					
Speed Governor	Electronic					
Cooling System	Water-cooled, 50°C radiator is standard					
Speed Stability (%)	≤1%					
Total lubrication system capacity (L)	18					
Coolant capacity (without radiator) (L)	27					
Fuel Consumption at 100% Load (L/H)	42,5					
Starter Motor	DC24V					
Start type	Electrical					

Alternator SPECIFICATION

SOYGEN ALTERNATOR (Standard)

Technical Data

Alternator Model	SGR-225				
Exciter type	Brushless, Self-excited				
Power factor	0.8				
Voltage Adjust range	≥5%				
Voltage Regulation NL-FL	≤±0.5%				
Insulation Grade	Н				
Protection Grade	IP23				

RICANDO LINGINE

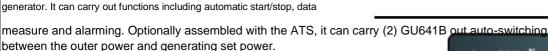
Control System

- 1. Standard: DATAKOM D-300
- 2. Deepsea DSE7320 AMF Digital Controller 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 (1) DSE7320 *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



(AMF)

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







(3) AMF25



(4) DSE3110