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SGR-50 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
- 12V 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
- 130 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	K∖	/A	Cons							Alternator
MODEL	ESP	PRP	100% (L/H)	dB(A) @7m	Tank (L)	Model	Cyl	Gov.	Asp.	Model
SGR-50	50	45	12	78	130	K4100ZD	4	Е	TCA	SGR-55

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

Page: 2/5 Specifications may change without Notice

Reliable Performance

Voltage regulation

Voltage regulation maintained within ±0.5% as follow:

- + Power factor Between 0.8 ${\sim}1.0$ 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%

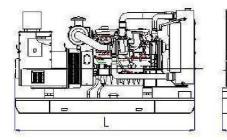
Effect factor of telecom

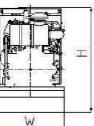
- TIF(MA MG1-22) better than 50
- THF(BS EN60034) better than 2%

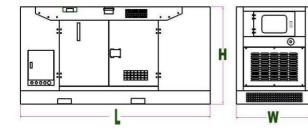
Criterion

- 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) 1800*1000*1040 Weight: 950kg

Silent Type

Overall size (L*W*H) 2200*900*1250 Weight: 900kg

ENGINE SPECIFICATION

RICARDO Diesel Engine

Technical Data

Engine Model	K4100ZD					
Number of Cylinders	4					
Cylinder arrangement	Vertical in-line					
Cycle	Four stroke					
Aspiration	Turbocharged Air-Air Aftercooled					
Bore×Stroke (mm×mm)	105*127					
Displacement (Liter)	3.3					
Compression Ratio	19.25:1					
Prime Power/Speed (kW/rpm)	40/1500RPM					
Standby Power/Speed (kW/rpm)	44/1500RPM					
Speed Governor	Electronic					
Cooling System	Water-cooled, 50 $^\circ\!\mathrm{C}$ radiator is standard					
Speed Stability (%)	≤1%					
Total lubrication system capacity (L)	7.9					
Coolant capacity (without radiator) (L)	10.2					
Fuel Consumption at 100% Load (L/H)	25					
Starter Motor	DC12V					
Start type	Electrical					

Alternator SPECIFICATION

SOYGEN ALTERNATOR (Standard)

Technical Data

Alternator Model	SGR-50				
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				

Powered by RICARDO ENGINE

Control System

SGR-50 Generating Set

