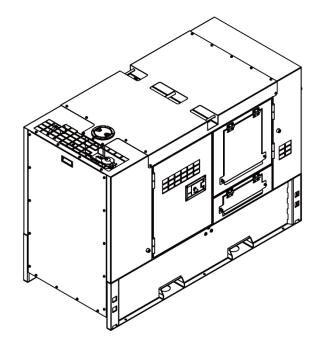


SG20KS DIESEL GENSET SPECIFICATION

20kVA (PRP) / 22kVA (ESP)

ID: 1000033690







General technical data

Model	SG20KS	Rated voltage V	Current A
Structure	PT	220	90.9
Prime power (PRP): kVA / kW	20 / 16	230	87.0
Standby power (ESP): kVA/kW	22 / 18	240	83.3
Frequency: Hz	50		
Rotate speed: RPM	1500		
Phase: P	3		
Power factor: cosq	0.8	Load	Fuel consumption L/h
Protection class	IP54	25%	N/A
Noise level: dB@7m	61.0	50%	2.8
Tank capacity: L	50	75%	4.1
Dimensions: mm	1700×750×1080	100%	5.5
Dry weight: kg	1000	110%	6.1

Main Features

Advantage	Advantage Design Standards Environmental Operat	
Low fuel consumption	Conformite Europeenne (CE)	 Installation place: outdoor / indoor (well ventilated).
Optimized system	• ISO8528-5:2005	• Ambient temperature: -25°C to 45°C (the
High reliability		coolant heater is needed when the temperature is below 5℃)
High availability		Humidity: Less than 80%
		 Altitude: Below one thousand (1000) meters.

Factory Inspection Service Support		Performance Guarantee		
Protection devices working test	Global product service support	 Product design, manufacturing and performance have been verified by standards 		
Starting ability in normal temperature		Generator set has passed transient		
 50% rated power load r 	noment capability	response test according to ISO8528-5		
		Both engine and alternator have passed		
 Load test :0, 25%, 50% 	, 75%, 100%, 110%	prototype factory testing.		



Power System

Engine

Manufacturer / brand	Kubota
Model	V2203-BG
Cylinders	3L
Bore: mm	87
Stroke: mm	92
Displacement: L	1.65
Compression ratio	23.0
Rotate speed: RPM	1500
Prime power: kWm	15.0
Standby power: kWm	18.1
Rotate speed governor	Mech
Type of fuel Injection	Direct

Intake system	Natural aspirated
Intake resistance: kPa	≦1.96
Exhaust back pressure: kPa	≦7.07
Oil capacity: L	7.1
Coolant capacity: L	7.6
Battery voltage: V	12
Dimensions: mm	608×548×642
Dry weight: kg	148

Alternator

Manufacturer / brand	Leroysomer
Model	LSA42.3S4
Exciter	Brushless
Windings	100% copper
Winding pitch	2/3
Number of poles	4
Terminals	12

Insulation class	Н
Temperature rising class	Н
Protection class	IP23
Voltage regulation	±1.0%
Telephone harmonic factor THF	<2%
Telephone interference factor TIF	<50

Control System

Brand	POWERLINK
Model	PLC-920

General Functions

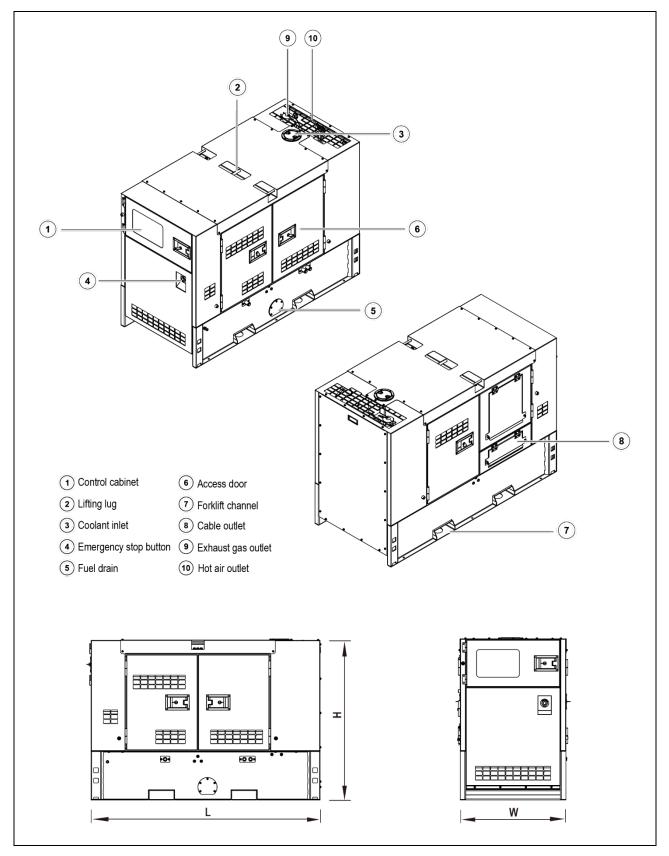
- Automatic start / stop control
- Manual/remote start control
- Real time monitoring and display of multiple parameters
- RS232, RS485 interface and Ethernet can be used simultaneously
- CAN and Modbus communication
- Provide complete control solutions

Monitoring and protection	
Oil pressure	Over load
Water temperature	Over current
Rotate speed	Over voltage
Start	Under voltage
Running time	Over frequency
Battery voltage	Under frequency

Diesel Genset Specification SG20KS



Product Appearance





Product Configuration

Standard configuration

-				
Engine	Generator	Control switchgear	Canopy (sound-proof)	Base Frame
Electrical start motor Battery system Speed control system Natural aspirated Lockable isolator switch Battery charger	Alternator H class insulation H class temperature rising IP23 protection AVR voltage regulator	PLC control system Main circuit breaker Breaker cabinet Communication connector ATS connector Mains floating charger	Steel plate Corrosion-resistant coating Access door Stainless steel hinge Sound absorbing cotton	Steel base frame Engine bracket Alternator bracket Radiator bracket Vibration isolators
Fuel system	Lubrication system	Cooling system	Intake / exhaust system	Service documents
Base frame fuel tank Fuel level sensor Flexible connection pipe Fuel filter	Oil pressure sensor Oil temperature sensor Oil filter Manual oil drain pump Oil drain ball valve	50°C radiator Water level sensor Jacket water pipe Intercooling pipe	Air filter Exhaust muffler Exhaust bellow Exhaust pipe and flange High temperature protective sleeve	Installation and operation manual Test report Circuit diagram Warranty manual Engine operation and maintenance manual Standard package

Optional configuration

Engine	Alternator	Control switchgear	Fuel system	Lubrication system
Jacket water preheater Oil preheater	Anti-condensation heater Treatments against humidity and corrosion	4P circuit breaker ATS cabinet Paralleling control system	Fuel three-way valve Daily fuel tank	Electric oil drain pump
		Grid-connection system		

Power Class Definition

- Prime Power (PRP): the unit runs continuously with variable load, the number of operating hours is not limited, and 1h overload 10% operation is allowed per 12h, and the average load factor is less than 70% per 24h.
- Standby Power (ESP): operating time does not exceed 500h per year, continuous operating time does not exceed 300h, the average load factor is less than 80% per 24h. Overload operation is not allowed.

Product Statement

- The data of specifications is based on the following standard environmental test conditions.
 - Ambient temperature 25°C
 - Altitude 100m
 - Relative humidity 30%
- Dimensions, weight and other parame0ters are for reference only, which shall be subject to the final design drawing.



Data is subject to change without prior notice as new products are always developed.

Please contact PowerLink or local agent with any doubts or for more information.