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SGP-1000

Generator Set Technical Data Sheet

Powered by

Perkins 4012-46TWG2A

1000KW/1250KVA at 50Hz, 230/400V



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Genset Main Specifications

3-PH, 50Hz@1500RPM, 400/230V (Also Can Be Made According To Customers' Special Requirements)

- Composed of Perkins diesel engine and Stamford or Leroy Somer alternator
- 24V DC start motor and storage battery
- Brushless, Self-excited, IP23, insulation class H alternator
- 40°C radiator as standard, 50°C is optional
- Key start panel control system as standard, digital auto-start panel is optional
- 8-hour operation base tank
- 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 pressure, battery charging fail, emergency stop)



Prime Power	1000KW/1250KVA	Standby Power	1100KW/1375KVA
Rated Speed	1500RPM	Output Frequency	50HZ
Phase	3	Rated Voltage	400V
Engine Model	4012-46TWG2A	Alternator Model	LVI634G
Fuel Consumption of 100% load	262 L/H	Fuel Consumption of 75% load	196.5L/H
Voltage Regulation Rate	≤ ± 1%	Random Voltage Rate	≤ ± 1%
Frequency Regulation Rate	≤ ± 5%	Random Frequency Variation	≤ ± 0.5%
Dimension (open type)	4300×1800×2300(mm)	Weight (open type)	7000kg
Dimension(silent type)	4800×2050×2450(mm)	Weight (silent type)	8000kg

Prime Power:

This rating is for the supply of continuous electrical power (at variable load). There is no limit on the annual hours of operation and 10% overload power can be supplied for 1 hour in 12.

Standby Power:

This rating is for the supply of continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted.

Rated Voltage:

Available with customer requirements.

Engine Specifications

Perkins Diesel Engine

Engine Model	4012-46TWG2A
Number of Cylinder	12
Cylinder arrangement	Vertical in-line
Cycle	Four Stroke
Aspiration	Turbocharged, air to air charge cooled
Bore×Stroke (mm×mm)	160×190
Displacement	45.84 L
Compression Ratio	13.6:1
Prime Power/Speed(KW/rpm)	1166/1500
Standby Power/Speed(KW/rpm)	1283/1500
Speed Governor	Electrical
Cooling System	Water-cooled, 4°C Radiator As Standard, 50°C Is Optional
Speed Stability(%)	≤5%
Total Lubrication System Capacity (L)	177.6
Coolant Capacity(without radiator) (L)	201
Fuel Consumption at 100% Load(L/Hr)	262 (at 1500RPM)
Starter Motor	DC24V
Alternator	AC24V

Alternator Specifications

Alternator Model	LVI634G
Alternator Brand	Stamford
Exciter Type	Brushless, Self-excited
Rated Output	1000kw/1250kva
Rated Speed	1500RPM
Rated Frequency	50HZ
Phase	Three
Rated Voltage	230V/400V (Available with customer requirements)
Power Factor	0.8
Voltage Adjust Range	≥5%
Voltage Regulation NL-FL	≤±1%
Insulation Grade	H
Protection Grade	IP23

Other alternator option: Leroy Somer

Control System

Harsen GU641B Genset Controller

Description:

GU641B is an Automatic Mains (Utility) Failure module which is designed to monitor the mains (utility) and on failure automatically starts the generator and transfers the load. On return of the mains (utility) the controller automatically returns the load to the mains and stops the Generator after a cool down period.

The module also monitors and protects the engine. Indicating operational status, fault conditions and metering on the front panel LCD and LED's.

Specification:

- True PMS measuring.
- Configuration of parameters by front panel push buttons or communication software
- RS485, RS232, or USB port for remote communication.
- Configurable fuel output energise to stop or energise to run.
- 6 Configurable inputs.
- 4 Configurable outputs, 2 used for ATS control.
- 2 Analogue inputs configurable for different senders for Oil .
- Pressure and engine temperature.
- Push Buttons for manual control of GCR/MCR.



Front View

Warning and Shutdown Alarms:

- Low oil pressure
- High engine temperature
- Over speed
- Under speed
- Start failure
- Stop failure
- Emergency stop
- High/Low battery voltage
- Aux.shutdown alarm

