

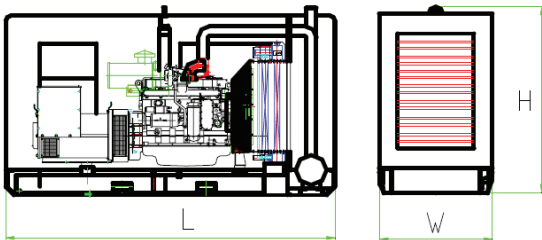
650KVA Diesel Generator Set GP650S

GENERAL FEATURES

- All qualified generator sets are subjected to a comprehensive performance test which includes 50% load, 75% load, 100% load, 110% load and to check, verify that all control systems, alarm and shut-down protection.
- Equipped with battery charger and 12V high performance maintenance-free lead-acid starting batteries and connecting cables.
- Equipped with industrial silencer and flexible exhaust hose.
- Equipped with 8-hours operation base fuel tank.
- Equipped with MCCB circuit breaker.
- Designed to Comply with ISO8528/GB2820.
- Powered by Perkins engine and coupled with Leroy Somer alternator.

ADVANTAGES

- Stability, reliability and easy-service
- Low operating and maintenance cost
- Widely used, location to meet customer needs
- Easy-installation, easy-operation and maintenance



DIMENSION AND WEIGHT

Length (L)	mm	4800
Width (W)	mm	1830
Height (H)	mm	2515
Weight	kg	6150
Tank capacity	L	970

ENVIRONMENTAL CONDITION

Environment temperature	°C	≤50
Relative humidity	%	≤90
Altitude	m	≤1000



Photos reference only

GENSET TECHNICAL DATA

Prime power	650 kVA
Standby power	715 kVA
Rated speed	1500 RPM
Output frequency	50 Hz
Phase	3
Rated voltage	400 V
Noise dB(A) @7m	80
Engine model	2806A-E18TAG2
Alternator model	LSA 49.1 S4
Fuel consumption of 100% load	132 Litres/h
Fuel consumption of 75% load	97 Litres/h
Voltage regulation rate	≤±1%
Random voltage variation	≤±1%
Frequency regulation rate	≤±5%
Random frequency variation	≤±0.5%

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

Engine model	2806A-E18TAG2
Engine manufacturer	Perkins
Number of cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbo Air-Air Cooling
Bore×Stroke (mm×mm)	145×183
Displacement (Liter)	18.1
Compression Ratio	14.5:1
Prime power/speed (kW/RPM)	565/1500
Standby power/speed (kW/RPM)	609/1500
Speed governor	ECM
Cooling system	Forced Water Cooling Cycle
Steady speed droop (%)	≤1%
Total lubrication system capacity	62
Coolant capacity (engine only)	61
Fuel consumption at 100% load (g/kWh)	202 (at 1500RPM)
Starter motor	DC24V,
Alternator	DC24V

ALTERNATOR SPECIFICATIONS

Alternator model	LSA 49.1 S4
Alternator manufacturer	Leroy Somer
Exciter type	Single bearing, Brushless, Self-excited
Rated output prime power	660kVA
Rated speed	1500 RPM
Rated frequency	50 Hz
Phase	3
Rated voltage	400 V (Available with customer requirements)
Power factor	0.8
Voltage adjust range	≥5%
Voltage regulation NL-FL	≤±1%
Insulation grade	H
Protection grade	IP23

CONTROL SYSTEM DSE3110

All gensets have a control cubicle (the Deepsea control module DSE3110 as standard) mounted on a isolated support, which has the following features:

- Electronic digital control module with monitoring/control facility and warning indicators
- Automatic shutdown protection
- Emergency stop button (lock-down type)
- AC output circuit breaker with over-current protection
- DC circuit control switch

THE CONTROL MODULE DISPLAY

- Generator voltage
- Output frequency
- Engine speed
- Battery voltage
- Engine run-time (Hours)



DSE3110

Note:

1. The engine coolant temperature displayed by water temperature gauge
2. The engine oil pressure displayed by oil pressure meter
3. Generator current displayed by current meter, to change switch for each phase displayed separately





THE CONTROL MODULE DISPLAY FOR FAILURE INFORMATION

- Overspeed / underspeed
- Emergency stop
- Low oil pressure
- High water temperature
- Failure to start
- Battery charger failure

AUTOMATIC SHUTDOWN

- Low engine oil pressure
- High engine water temperature
- Overspeed/underspeed
- Failure to start after three attempts

CONTACT US

-  Gaston Plaza, Gaston Lane, Off Garden Estate Road,
P. O. Box 16813 - 00620, Nairobi, Kenya
-  020 2463753/4, 0722 816 212, 0721 598 264
-  info@gastonkenya.com
-  www.gastonkenya.com