



**Gloria®  
Stanford  
GENERATOR**

GLORIA STANFORD® HEAVY DUTY  
DIESEL GENERATOR SET

**WEICHAI**



## GSW 50

### Description

This GLORIA STANFORD® Power Generation commercial generator set is a fully integrated power generation system, providing optimum performance, reliability, and versatility for stationary standby, prime power and continuous duty applications.

### Features

**GLORIA STANFORD® heavy-duty engine** - Rugged 4-cycle industrial diesel delivers reliable power, low emissions and fast response to load changes.

**Alternator:** Low reactance 2/3 pitch windings; low waveform distortion with non-linear loads, fault clearing short-circuits capability, and class H insulation.

**Cooling System:** The standard integrated kit model radiator system designed and tested for nominal ambient temperatures, simplifies facility design requirements for heat rejected.

**Control System:** Datakom electronic control is standard equipment and provides total genset system integration, including auto remote start/stop, alarm and status message display.

**Canopy Types** - Optionally it is possible to make it protective and soundproof against adverse climatic conditions

**Warranty and service** - Backed by a comprehensive warranty and worldwide aftersales support, 10 years of spare parts supplying.

### Stand by Rating (ESP)

It is the way that generators operate under variable load at certain time intervals. It can work as a backup power. It is not suitable to work under extreme load.

### Prime Rating (PRP)

Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

| Genset Model | Engine Model | Engine KW | Stand by Rating | Prime Rating |
|--------------|--------------|-----------|-----------------|--------------|
| GSW_50       | WEI 3.6      | 40 KW     | 50 kVA          | 45 kVA       |



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**brings strength!**

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0850 346 0 600



## GENERATOR SET SPECIFICATIONS

|                                          |                                                  |
|------------------------------------------|--------------------------------------------------|
| Governor regulation class                | ISO 8528 G3                                      |
| Voltage regulation, no load to full load | ± 1%                                             |
| Random voltage variation                 | ± 1%                                             |
| Frequency regulation                     | Isochronous                                      |
| Random frequency variation               | ± 0.25%                                          |
| EMS compatibility                        | In compliance with BS 800 and VDE levels G and N |

## ENGINE SPECIFICATIONS

| Titles                                                 | Features                |
|--------------------------------------------------------|-------------------------|
| <b>Engine brand</b>                                    | <b>Weichai Engine</b>   |
| Aspiration Type                                        | Natural                 |
| Engine Rated Speed                                     | 1500 rpm                |
| Bore                                                   | 100 mm                  |
| Stroke                                                 | 115 mm                  |
| Displacement                                           | 3,61 L                  |
| Cylinder block                                         | 4 cylinder, vertical    |
| Oil Capacity                                           | 13 L                    |
| Coolant Capacity for Engine                            | 17 L                    |
| Starting voltage                                       | 12 V                    |
| Fuel system                                            | Direct injection        |
| Fuel filter                                            | Strata pore fuel filter |
| Air cleaner type                                       | Heavy duty air cleaner  |
| Compression ratio                                      | 17:1                    |
| Cycle                                                  | 4 stroke                |
| Cooling system                                         | Water cooled            |
| Governor Type                                          | Mechanical              |
| Fuel Consumption at 25% of generator set prime output  | 4,9 L/hr                |
| Fuel Consumption at 50% of generator set prime output  | 8,0 L/hr                |
| Fuel Consumption at 75% of generator set prime output  | 10,2 L/hr               |
| Fuel Consumption at 100% of generator set prime output | 11,5 L/hr               |

## ALTERNATOR SPECIFICATIONS

| Titles                                       | Features                                               |
|----------------------------------------------|--------------------------------------------------------|
| <b>Alternator brand</b>                      | <b>Stanford</b>                                        |
| Type                                         | Brushless, revolving field                             |
| Frequency                                    | 50 Hz                                                  |
| Winding pitch                                | 2/3 pitch                                              |
| Number of bearing                            | Single bearing                                         |
| Protection                                   | IP23                                                   |
| Insulation system                            | Class H                                                |
| Standard temperature rise                    | Standart 125°C, Stand by 163°C                         |
| Exciter type self                            | Self - excitation or other excitation by PMG           |
| Phase rotation                               | A (U), B (V), C (W)                                    |
| Alternator cooling                           | Direct drive centrifugal blower fan                    |
| AC waveform total harmonic distortion (THDV) | No load <1.5%. Non distorting balanced linear load <5% |
| Telephone influence factor (TIF)             | <50% per NEMA MG1-22.43                                |
| Telephone harmonic factor (THF)              | <2%                                                    |

## GENERATOR SET OPTIONS

### Engine

- ☐ Water jacket heater

### Cooling

- ☐ Antifreeze -25°

### Alternator

- ☐ H class insulation  
☐ Exciter voltage regulator

### Control panel

- ☐ Datakom  
☐ 3 pole main circuit breaker  
☐ Motorised 4 pole circuit breaker

### Canopy Types

- ☐ Optional super silent

### Warranty

- ☐ Global warranty

## CONTROL SYSTEM

The D-500LITE MK2 is a cost effective modular genset controller ready for internet monitoring through plug-in modules.

## FEATURES

- Diesel and gas genset support
- 400Hz operation support
- 400 event logs, full snapshot
- All parameters front panel editable
- 3 level configuration password
- 128x64 graphical LCD display
- Downloadable languages
- Waveform display of V & I
- Harmonic analysis of V & I
- 16Amp MCB & GCB outputs
- 8 configurable digital inputs
- 6 configurable digital outputs
- 3 configurable analog inputs
- Both CANBUS-J1939 & MPU
- 3 configurable service alarms
- Multiple automatic exerciser
- Weekly operation schedule
- Dual mutual standby with equal aging of gensets
- Manual "speed fine adjust" on selected ECUs
- Automatic fuel pump control
- Disable protections feature
- Excess power protection
- Reverse power protection
- Overload IDMT protection
- Load shedding, dummy load
- Multiple load management
- Current unbalance protection
- Voltage unbalance protection
- Fuel filling & fuel theft alarms
- Battery back-up real time clock
- Idle speed control
- Battery charge run enabled
- Combat mode support
- Multiple nominal conditions
- Contactor & MCB drive
- 4 quadrant genset power counters
- Mains power counters
- Fuel filling counter
- Fuel consumption counter
- Modem diagnostics display
- Configurable through USB, RS-232 and GPRS
- Free configuration program
- Allows SMS controls
- Ready for central monitoring
- Mobile genset support • Automatic GSM geo-location
- GPS connectivity (RS232)
- Easy USB firmware upgrade
- IP65 rating with optional gasket

## FUNCTIONALITIES

- AMF unit
- ATS unit
- Remote Start Controller
- Manual Start Controller
- Engine Controller

## TOPOLOGIES

- 3 ph 4 w, star & delta
- 3 ph 3 w, 2 CTs
- 2 ph 3 w
- 1 phase 2 wires

## COMMUNICATION

- USB Device
- J1939-CANBUS
- Geo-locating through GSM
- Internet Central Monitoring
- SMS Message Sending
- E-mail Sending
- Free Pc Software: RainbowPlus
- Modbus RTU (2400-57600baud)
- Modbus TCP/IP

## REMOTE MONITORING (OPTIONAL)

- Single server supports up to 60'000 devices
- Provides data security, data is sent to only server
- Uses internet-based interactive World map
- Real time display of status of devices are shown on the map, and on side panel
- Hierarchical configuration and clustering
- Remote control of devices
- Supports all Datakom products, which are integrated with DKG 210 gateway
- Supports all devices, which supports Modbus protocol, by integrating DKG 210 gateway
- Data recording, analysis and reporting
- Tablet and smartphone interfaces

## PLUG-IN MODULES (OPTIONAL)

- GSM Modem (2G-3G-4G)
- Ethernet 100Mbps
- Wi-Fi (802.11 b/g/n)
- RS-485 (2400-57600baud)
- RS-232 (2400-57600baud)

## MEASUREMENTS

- Mains & genset PN/PP voltages
- Mains & genset frequency
- Mains & genset phase currents
- Mains & genset neutral currents
- Mains & genset, phase & total, kW, kVA, kVAr, pf
- Engine speed
- Battery voltage



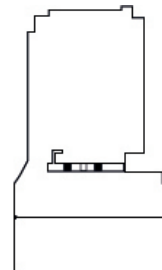
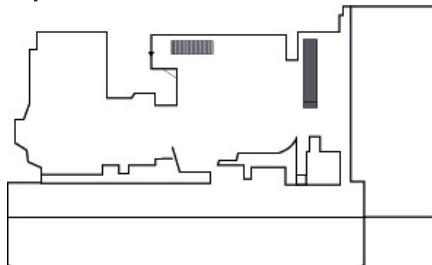
D-500LITE MK2 control operator / display panel



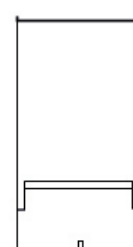
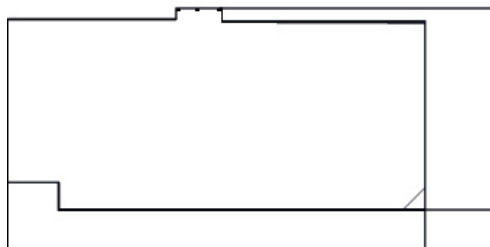
## CANOPY STANDART SPECIFICATIONS

- Compact design connection with non-welded nuts and bolts.
- Integrated canopy, generator set, exhaust system fuel tank.
- Body made from steel components treated with polyester powder coating
- Easy access to all service points
- Exhaust system inside canopy
- Large doors on each side
- Control panel viewing window in a lockable access door
- Emergency stop push button mounted on cabin exterior
- Fuel fill and battery can only be reached via lockable access doors.
- Customer options available to meet your applications needs.
- GLORIA STANFORD makes its generating sets noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been approved by the notified body Szutest (CE conformity assessment body).

Open



Enclosed



|           | Dry Weight (kg) | Length (mm) | Width (mm) | Height (mm) | Tank Capacity (L) |
|-----------|-----------------|-------------|------------|-------------|-------------------|
| Open type | 750             | 2000        | 900        | 1550        | 126,4             |
| Canopy    | 980             | 2250        | 900        | 1650        | 126,4             |

## CERTIFICATES



Gloria Stanford Generator has Quality Management Systems certificate.  
ISO 9001:2015



Gloria Stanford Generator has Occupational Health and Safety Management Systems certificate.  
ISO 45001: 2018



Gloria Stanford Generator has Environmental Management System certification.  
ISO 14001:2015



This generator set is available with CE certification.

