

# ■ Model: GSC50D6-1P | GSC50S6-1P

Powered by SDEC



## ■ Generator Specification

Service	PRP(1)	ESP(2)
Power (KVA)	50	55
Power (KW)	50	55
Rated speed	1800RPM	
Standard voltage	220V,230V,240V	
Power factor	1.0	
Phase	Single	



GENLITEC Power gensets are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery safety.
- 2006/95/EC Low voltage
- EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 13849-1:2008, EN 12601: 2010
- **GSC50D6-1P: OPEN TYPE; GSC50S6-1P: SILENT TYPE**

### (1) PRP (Prime Power)

According to ISO 8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

### (2) ESP (Standby Power)

According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufactures. No overload capability is available.

Voltage (V)	ESP		PRP		Current Amps
	KVA	KW	KVA	KW	
240	55	55	50	50	208
230	55	55	50	50	217
220	55	55	50	50	227

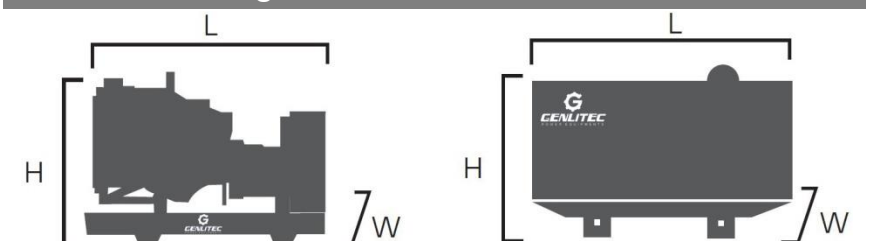
## Performance Data

Model	GSC50D6-1P   GSC50S6-1P	
Engine brand	SDEC (SHANGCHAI)	
Engine model	4ZT3.5-G21	
Speed control type	Electronic	
Alternator brand	GENLITEC	
Alternator model	S224G45	
Control system	SMARTGEN HGM6110N	
Starter motor voltage	12V	
Frequency	60Hz	
Fuel Consumption (L/H)	100% Prime Load	12.82
	75% Prime Load	9.65
	50% Prime Load	6.7
	25% Prime Load	4.16

### Standard Reference Conditions

Note: Standard reference condition 25°C (77°F) air inlet temp. 100m (328ft) A.S.L 30% relative humidity. Fuel consumption date with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998 Class A2

## Dimension & Weight



Dimension	Open type	Silent type
Length (L)	1900mm	2358mm
Width (W)	800mm	1000mm
Height (H)	1300mm	1450mm
Net Weight	900kg	1300kg

Note: This parameters allows for some acceptable deviations.

## ■ Engine Specification



### MODEL: SDEC 4ZT4.1-Z21

Cylinder number	4
Aspiration system	Natural
Cooling method	Water cooled
Governor type	Electronic
Bore x Stroke (mm)	105x118
Compression ratio	18:1
Rated speed (RPM)	1800
Displacement (L)	4.1
Rated power (KW)	70
Standby power (KW)	77
Coolant capacity (L)	4.1
Steady state speed regulation (%)	≤5
Oil capacity (L)	10
Combustion type	Direct injection
Starter motor capacity	DC 12V

## ■ Alternator Specification



### MODEL: GENLITEC S224G45

Number of phase	Single
Rated power (KW)	54
Frequency (Hz)	60
Power factor (Cos Phi)	1.0
Poles	2
Temp. rise	125K
Terminals	12
Insulation type	H class
Ambient temp.	40°C
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Coupling	Flexible disc

### Standard Supply Scope

- |                               |                            |                         |                         |
|-------------------------------|----------------------------|-------------------------|-------------------------|
| ● Industrial exhaust silencer | ● Flexible pipes           | ● Float Battery charger | ● Base frame            |
| ● Maintenance free battery    | ● Battery wires            | ● Manual books          | ● Digital control panel |
| ● Water cooling radiator      | ● Wiring diagram           | ● Tool kits             | ● Main circuit breaker  |
| ● A.V.R                       | ● Build-in based fuel tank | ● Emergency stop button |                         |

## ■ Optional Supply Scope

Engine	Alternator	Generator Sets	Control Panel
<ul style="list-style-type: none"> <li>○ Water jacket pre-heater</li> <li>○ Lubrication oil pre-heater</li> <li>○ Battery isolator</li> </ul>	<ul style="list-style-type: none"> <li>○ Anti-condensation heater</li> <li>○ PMG</li> </ul>	<ul style="list-style-type: none"> <li>○ Extended fuel tank 12h/24h/72h</li> <li>○ Soundproof canopy</li> <li>○ Trailer mounted</li> </ul>	<ul style="list-style-type: none"> <li>○ Remote control system</li> <li>○ Build-in/External ATS</li> <li>○ Synchronizing System</li> <li>○ Power output sockets</li> </ul>

## ■ Control Panel

### Configuration

- Emergency stop button
- Protection MCB (Main circuit breaker)
- Float battery charger
- ATS connection
- AMF digital control module
- Fuel level meter
- Controller power switch
- Alarm buzzer

### Features

- Chinese, English, Spanish, Turkish, Russian & French language
- Three phase generator monitoring
- Automatic or manual start/stop of the gensets
- Push buttons for simple control & operation
- Generator measurements (50Hz/60Hz)
- Precision collect & display parameters about ENGINE
- Comprehensive shutdown or warning on fault condition
- Three phase generator protections
  - Over / under voltage
  - Over / under frequency
  - Current / voltage asymmetry
  - Over current / overload
- Three phase AMF function
  - Over / under voltage
  - Loss of phase detection function
- Emergency start function
- IP55 waterproof with rubber-ring gasket



### Control Module Model: SMARTGEN HGM6120N

Display	LCD (132 x 64)
Operation panel	Silicon rubber
Digital input	5
Relay output	6
Analogue input	3
AMF	Yes
AC System	1P2W / 2P3W / 3P3W / 3P4W
Alternator voltage	15-360V (ph-N)
Alternator frequency	50/60Hz
KW/Amp Detecting & Display	Yes
Monitor interface	USB
Programmable interface	USB
DC supply	DC 8-35V
Operating temp.	-25 ~ +70°C

## ■ Controller Module Options

### COMAP

#### AMF25



### COMAP

#### DSE6020



### DEEPSEA

#### DSE7320

